This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.

+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.

+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.

+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at `http://books.google.com/`

IENT

K.

PRESENTED TO

The New York Academy of Medicine.

By

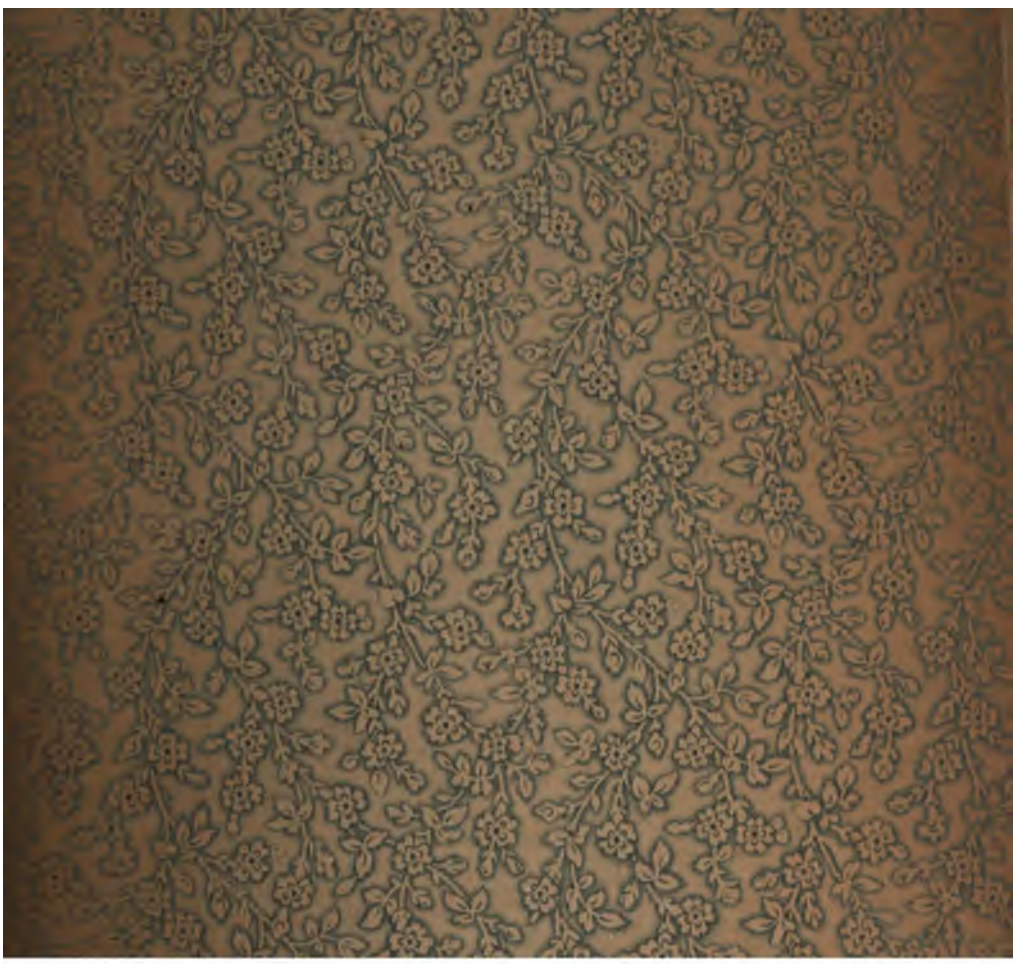
The Society of the New York Hospital,

March, 1898.

LANE

MEDICAL LIBRARY

LEVI COOPER LANE FUND



ANNUAL REPORT

OF THE

BOARD OF HEALTH

OF THE

HEALTH DEPARTMENT OF THE CITY OF NEW YORK,

FOR THE

YEAR ENDING DECEMBER 31, 1892.

THE PROPERTY OF THE
JUL
13
1894
NEW YORK HOSPITAL.

NEW YORK:
MARTIN B. BROWN, PRINTER AND STATIONER,
Nos. 49 to 57 Park Place.

1894.

LANE LIBRARY

BOARD OF HEALTH.

DECEMBER 31, 1892.

President:

CHARLES G. WILSON.

JOSEPH D. BRYANT, M. D., ... *Commissioner of Health.*

WILLIAM T. JENKINS, M. D., . . . *Health Officer of the Port.*

JAMES J. MARTIN, ... *President, Board of Police.*

Secretary:

EMMONS CLARK.

Attorney and Counsel:

HENRY STEINERT.

25846

HONORARY AND CONSULTING OFFICERS.

CHARLES F. CHANDLER, Ph. D., . . .	*Consulting Hygienist.*
GEORGE F. SHRADY, M. D., ...	*Consulting Physician-in-Chief to the Hospitals.*
T. MITCHELL PRUDDEN, M. D., . . .	*Consulting Pathologist and Bacteriologist.*
HORACE P. LOOMIS, M. D., ...	" " "
FRANK FERGUSON, M. D., ...	" " "
DANIEL DRAPER, M. D., ...	*Consulting Meteorologist.*
HENRY G. PIFFARD, M. D., ...	*Consulting Dermatologist.*
A. F. LIAUTARD, M. D., ...	*Consulting Veterinary Surgeon.*
JOSEPH N. HENRY, M. D., ...	*Consulting Dermatologist.*
STEVENSON TOWLE, ...	*Consulting Sanitary Engineer.*

EXECUTIVE OFFICERS.

SANITARY SUPERINTENDENT,
CYRUS EDSON, M. D.

ASSISTANT SANITARY SUPERINTENDENT,
EDWARD H. JANES, M. D.

REGISTER OF RECORDS,
JOHN T. NAGLE, M. D.

DEPUTY REGISTER OF RECORDS,
ROGER S. TRACY, M. D.

CHIEF SANITARY INSPECTOR,
WILLARD BULLARD.

CHIEF INSPECTOR OF CONTAGIOUS DISEASES,
CHARLES F. ROBERTS, M. D.

CHIEF INSPECTOR PATHOLOGY, BACTERIOLOGY AND DISINFECTION,
HERMAN M. BIGGS, M. D.

RESIDENT PHYSICIAN, RIVERSIDE HOSPITAL,
GEORGE L. NICHOLAS, M. D.

RESIDENT PHYSICIAN, WILLARD PARKER HOSPITAL,
F. W. LESTER, M. D.

CHEMIST,
EDWARD W. MARTIN.

SECRETARY'S OFFICE.

EMMONS CLARK, *Secretary.*
CASPAR GOLDERMAN, *Chief and Auditing Clerk.*
WILLIAM L. CRAIG, *Engrossing Clerk.*
WILLIAM F. WOODRUFF, *Order Clerk.*
JAMES McC. MILLER, *Clerk.*
CHARLES KOERBER, "
PAUL HUNTEN, *Clerk.*
MARTHA W. ALLASON, *Stenographer.*
JOSEPH L. McGLYNN, *Office Boy.*
RUDOLPH KNOEPFLE, "
JOHN ROTTKAMP, *Janitor.*
JOHANNA DEHM, *Sweeper.*
BERTHA DEHM, "

ATTORNEY AND COUNSEL'S OFFICE.

HENRY STEINERT, *Attorney and Counsel.*
ALDERT H. BANCKER, *Clerk.*
CHARLES HOYER, *Clerk.*
GEORGE P. FOULK, "
THOMAS FAY, "

SANITARY BUREAU.

SANITARY SUPERINTENDENT'S OFFICE.

CYRUS EDSON, M. D., *Sanitary Superintendent.*
EDWARD H. JANES, M. D., *Assistant Sanitary Superintendent.*
JAMES R. GRISWOLD, *Clerk.*
WILLIAM B. FERNHEAD, *Clerk.*
JOSEPH F. WILSON, "
NICHOLAS L. CAMPBELL, "
P. M. W. VERHOVEN, "
THOMAS HANLEY, "
JOHN O'CONNOR, *Office Boy.*
WILLARD BULLARD, *Chief Sanitary Inspector.*
FREDERICK SPRENGER, *Sanitary Inspector.*
HARRY E. BRAMLEY, *Sanitary Inspector.*
DAVID L. JOHNSTON, "
JOHN T. TURNER, "
JAMES BRYAN, "
H. L. BIENENFIELD, M. D., "
JAMES TENNANT, "
JOHN E. McGILL, "
EDWARD F. HURD, M. D., "
EDWARD J. LORENZE, M. D., "
S. P. CROPPER, M. D., "
THOMAS PEDDIE, M. D., "
FRANK P. ESTERLY, M. D., "
ANDREW J. BRENNAN, *Sanitary Inspector.*
JOHN J. SULLIVAN, "
JOSEPH J. KOEN, *Sanitary Engineer.*
EDWARD W. MARTIN, *Chemist.*
ALFRED L. BEEBE, *Assistant Chemist.*
RUSSELL RAYNOR, *Assistant Chemist and Milk Inspector.*
WILLIAM H. VERMILYE, M. D., *Inspector of Milk.*
HALSEY L. WOOD, M. D., "
S. W. CLASON, M. D., "
JOHN E. ALLEN, M. D., "
ERNEST J. LEDERLE, "
CHARLES WALTER, M. D., "
CHARLES E. H. GRAEB, "
WILTON G. BERRY, *Inspector of Offensive Trades.*
JOHN A. MORAN, *Inspector of Fish.*
BAYARD C. FULLER, *Inspector of Fruit.*
WILSON G. FOX, "
WASHINGTON T. ROMAINE, *Inspector of Meat.*
PETER GOODHEART, *Inspector of Meat.*
BRYCE MARS, "
JAMES F. McDERMOTT, "
GEORGE WILKEN, *Office Boy.*
MARIA O'BRIEN, *Sweeper.*

42 Patrolmen, 2 Roundsmen and 1 Sergeant of Police, as provided for by section 295, New York City Consolidation Act.

DIVISION OF CONTAGIOUS DISEASES.

CHARLES F. ROBERTS, M. D.,
Chief Inspector of Contagious Diseases.
WILLIAM J. PURCELL, M. D., *Clerk.*
JOHN SCHNELL, *Messenger.*
SAMUEL K. JOHNSON, *Veterinarian.*
ALFRED LUCAS,
Inspector of Tea and Coffee.
PATRICK NOONAN, *Stableman.*
FRED. H. DILLINGHAM, M. D.,
Sanitary Inspector (Contagious Diseases).
WILLIAM J. O'BYRNE, M. D.,
Sanitary Inspector (Contagious Diseases).
CHARLES S. BENEDICT, M. D.,
Sanitary Inspector (Contagious Diseases).
R. R. LYTLE, M. D.,
Sanitary Inspector (Contagious Diseases).
MOREAU MORRIS, M. D.,
Sanitary Inspector.
JOHN PARSONS, M. D., *Sanitary Inspector.*
ALVAH H. DOTY, M. D., "
ALONZO BLAUVELT, M. D., "
SAMUEL McCALLUM, M. D., "
M. C. WARSAW, M. D., "
JOHN S. DRAIN, M. D., "
CHAS. F. SPENCER, M. D., "
GEORGE F. SHRADY, JR., "
JOHN A. McLAUGHLIN, "
WATTS D. GARDNER, "
EDWARD J. ASPELL, M. D., "
W. W. TALLY, M. D., "
HENRY T. RITTER, *Office Boy.*
EDWARD L. PARDEE, M. D.,
Inspector in Charge of Virus.
JAMES BEHAN, *Stableman.*
FRANK LIVERMORE, M. D.,
Inspector of Vaccination.
GEORGE F. MORRIS, M. D.,
Inspector of Vaccination.
ALFRED V. BRAILLY, M. D.,
Inspector of Vaccination.
CHARLES E. DENISON, M. D.,
Inspector of Vaccination.
A. AYVAZIAN, M. D.,
Inspector of Vaccination.
JOSEPH ANDERSON, M. D.,
Temporary Vaccinator.
G. L. MICHON, M. D.,
Temporary Vaccinator.
H. W. WOOTTON, M. D.,
Temporary Vaccinator.
WILLIAM REYNOLDS, *Disinfector.*
BARTHOLOMEW McGOWAN, "
WILLIAM COONEY, "
THOMAS D. YATES, "
MICHAEL LESTRANGE, *Foreman.*
THOMAS L. CLACHER, "
WILLIAM MATTHEWS, "
T. H. WHITE, "
PATRICK H. DOONAN, "
JOHN CONROY, "
THOMAS DORIAN, "
W. T. BRADY, "
PHILLIP SCHNELL, *Laborer.*
THOMAS FEARY, "
THOMAS BANKS, "
DENIS J. WARD, "
THOMAS G. COWEN, "
JOHN CAMERON, "
WALTER BENSEL, M. D.,
Special Medical Inspector.
GEORGE W. BOGART, M. D.,
Special Medical Inspector.
J. C. BRYAN, M. D., *Special Medical Inspector.*
W. P. BYRNE, M. D., "
D. A. CHEVALIER, M. D., "
R. C. DAVIS, M. D., "
G. S. LYNDE, M. D., "
W. M. SEWARD, M. D., "
J. F. WHITMYER, M. D., "
W. E. WOODEND, M. D., "
R. H. ZANNER, M. D., "
L. C. POTTER, M. D., "
J. H. HUDDLESTON, M. D., "
DAVIES COXE, M. D., "

BUREAU OF RECORDS.

JOHN T. NAGLE, M. D.,
Register of Records.
ROGER S. TRACY, M. D.,
Deputy Register of Records.
JACOB A. WEIL, *Clerk.*
LOUIS KRAUSHAAR, *Clerk.*
EDWARD J. GALLAGHER, *Clerk.*
GARRETT N. FORD, "
JOHN H. BAZIN, *Clerk.*
GIDEON J. TUCKER, *Clerk.*
PETER J. SMITH, "
WILLIAM H. GUILFOY, M. D., *Clerk.*
H. M. COX, M. D., *Inspector.*
HENRY F. LINDSEY, *Office Boy.*
JOHN T. VOORHEES, "

HOSPITALS FOR CARE OF CONTAGIOUS DISEASES.

RIVERSIDE HOSPITAL, NORTH BROTHER ISLAND.

GEORGE L. NICHOLAS, M. D.,
Resident Physician.
S. DANA HUBBARD, M. D.,
Assistant Resident Physician.
KATE B. HOLDEN, *Matron.*
MARY DOWLING, *Nurse.*
M. L. WATKINS, "
CLARA A. LAY, "
MARY A. REYNOLDS, *Nurse.*
MINNIE PRATT, "
MARY SWITZER, "
CATHARINE WALLACE, "
ALICE M. GIGNEY, "
CHARLES KAIGHIN, *General Helper.*
SAMUEL VARADY, *Orderly.*
RICHARD TOOLE, "
FRANKLIN ROBINSON,
Orderly and Morgue Keeper.
EDWIN BOOTH, *Orderly.*
MICHAEL DEVEREUX, *Orderly.*
SOLOMON STAVISKY, "
J. W. FULLER, *Orderly.*
JANE NORMEIND, *Ward Helper.*
SARAH SULLIVAN, "
ELIZABETH RILEY, "
ALICE MOLONEY, "
LIZZIE JOHNSON, "
CATHERINE McGOVERN, *Ward Helper.*
BARBARA WAGNER, "
JOSEPH GAFFNEY, *Engineer.*
OTTO WEITNER, *Fireman.*
JAMES O'DANIELS, "
RICHARD TURFEY, *Watchman.*
JOHN KEEVIL, *Carpenter.*
CHARLES BAKER, *Boatman.*
EDWARD KRELL, *Gardener.*
MARY MELVILLE, *Cook.*
MARTHA KINDLER, *Assistant Cook.*
MINNIE McCREANOR, *Waitress.*
NELLIE DIXON, *Chambermaid.*
MAGGIE KAIGHIN, *Laundress.*
LIZZIE FITZPATRICK, "

WILLARD PARKER HOSPITAL.

EAST 16TH STREET.

F. W. LESTER, M. D., *Resident Physician.*
G. S. BLAKE, M. D., *Assistant Physician.*

JULIA M. SULLIVAN, *Matron.*
MARY O'CONNOR, *Nurse.*
ELLA WHEREAT, "
KATE M. REDMOND, "
MILLICENTE PRENDERGAST, *Nurse.*
J. M. CODY, *Nurse.*
MARION A. MURPHY, *Nurse.*
NORA HICKSON, *Ward Helper.*
MARY GANNON, "
ALICE COONEY, "
MARY MARTIN, "
WILLIAM SPOOR, *Engineer.*
DAVID JAYCOX, *Fireman.*
CHARLES HENRY, "
JOHN FINNEGAN, *Orderly.*
JAMES BARRIE, *Watchman.*
MAGGIE McCABE, *Cook.*
BRIDGET KENNEDY, *Assistant Cook.*
MARY McCABE, *Waitress.*
ANNIE ROURKE, *Chambermaid.*
ELLEN CARROLL, *Laundress.*
MARY FARRELL, "
MARY FARRY, "
MAGGIE MANNING, "
EMMA MEYER, *Helper.*
MARY BRENNAN, "
HELEN BOYDEN, "
LOUISA MARSHALL, *Helper.*

RECEPTION HOSPITAL.

FOOT OF EAST 16TH STREET.

BERTHA ROTH, *Matron.*

EDWARD ROTH, *Orderly.*
MAGGIE WALKER, *Helper.*

STEAMBOAT "FRANKLIN EDSON."

HENRY RICK, *Captain.*
GEORGE A. PALMER, *Engineer.*
FREDERICK H. WARING, *Fireman.*
CHARLES KRELL, *Deck-hand.*
WILLIAM WETTEBORN, *Deck-hand.*

IN CHARGE OF FLOATING HOSPITAL.

FREDERICK PARKINSON, *Captain.*
VICTOR REY, *Engineer.*

HEALTH DEPARTMENT.

REPORT FOR THE YEAR ENDING DECEMBER 31, 1892.

HEALTH DEPARTMENT,
NEW YORK, August 3, 1893.

Hon. THOMAS F. GILROY, *Mayor:*

SIR—In accordance with the provisions of section 533 of the New York Consolidation Act, the Commissioners of Health have the honor to present this their report of the operations of the Board of Health of the Health Department of the City of New York for the year ending December 31, 1892. Under the provisions of the Consolidation Act, the organization of the Health Department is divided into two bureaus, namely, the Sanitary Bureau and the Bureau of Records.

THE SANITARY BUREAU.

The Sanitary Bureau is under the charge of the Sanitary Superintendent, who, as its chief executive officer, is charged with the general supervision of the sanitary work of the Department, the enforcement of the provisions of the several sections of the Sanitary Code, and the laws and ordinances relating to tenement and lodging houses, and generally of the laws of the State relating to the Health Department of the City of New York. This bureau is divided into four divisions, as follows:

1st. The Division of Contagious Diseases and Special Medical Sanitary Inspection.
2d. The Division of Pathology, Bacteriology and Disinfection.
3d. The Division of General and Special Sanitary Inspection.
4th. The Division of Offensive Trades and Food Inspection.

THE BUREAU OF RECORDS.

This bureau is in charge of the Register of Records, and is intrusted with the registration of marriages, births and deaths, the granting of burial permits, the study of topographical causes of disease and circumstances of unusual deaths, and incidentally the classification and filing of vital statistics.

HOSPITALS.

There are also three hospitals under the charge of the Board of Health, namely, the Willard Parker, the Reception Hospital and the Riverside Hospital (North Brother Island), which are devoted to the reception and treatment of those suffering from contagious diseases.

PUBLIC HEALTH.

Although confronted with an outbreak of small-pox, typhus fever and cholera during the year, the general health of the city has shown a state of unexceptionable healthfulness.

The record of vital statistics, as found in the report of the Register of Records for the year 1892, shows that with an estimated population of 1,827,396, there were 44,329 deaths as against 43,659 deaths in 1891, with an estimated population ot 1,765,645, showing a death-rate of 24.26 per 1,000 in 1892 as against * 24.73 per 1,000 in 1891.

While the rate of mortality for 1892 was not only lower than that of 1891, but below the average for the years between 1880 and 1889, it cannot be gainsaid that the great gain was in the latter part of the year (after August 6) during which time there was a great falling off in the death-rate. During the first half of the year, as compared with 1891, there was an increase of 297 deaths, as is shown by the following table:

	1891.	1892.	Increase.
Deaths for the first twenty-six weeks, ending July 2	22,719	23,016	297
Deaths for the next five weeks, ending August 6	4,607	6,064	1,457
Total	27,326	29,080	1,754

The five weeks following, as is shown in the above table, were weeks of extraordinary high mortality, therefore, at the end of the thirty-first week of the year (August 6) there were 1,754 more deaths in 1892 than in the same period of the preceding year. Of this excess (297) during the first half of the year, 76 deaths were chargeable to small-pox and typhus fever, which together caused only 3 deaths in 1891, and accounts for about 25 per cent. of the increase for 1892. That the great increase during the next five weeks (July 2 to August 6) was chargeable to the intense heat of the month of July is plainly shown by a comparison of the temperatures for July and the first week in August:

Week Ending—	Mean Temperature.		Maximum Daily.		Weekly Maximum.		Increase or Decrease.		
	1891.	1892.	1891.	1892.	1891.	1892.	Mean.	Mean Daily Maximum.	Weekly Maximum.
July 9	70.1	70.9	78.3	79.3	82	88	+ .8	+ 1	+ 6
" 16	77.	78.4	85.1	87.3	90	92	+ 1.4	+ 2.2	+ 2
" 23	76.8	72.6	82.8	82.6	86	89	— 4.2	— .2	+ 3
" 30	69.9	83.7	76.4	92.7	79	97	+13.8	+16.3	+18
Aug. 6	74.5	74	82	80.6	91	88	— .5	— 1.4	— 3
Average	73.6	75.9	80.9	84.5	85.6	90.8	+ 2.26	+ 3.58	+ 5.2

The above table shows that there was an average weekly excess for the five weeks in 1892 over 1891 of 2.26 degrees in the mean temperature, of 3.58 degrees in the mean daily maximum, of 5.2

* Readjusted back to 1880, based upon U. S. census of 1880 and State census of 1892.

degrees in the mean weekly maximum. After this heated period (August 6) there was a marked falling off in the mortality, thus:

	1891.	1892.	Decrease.
Deaths for last twenty-one weeks of year, August 6 to December 31.....	16,001	15,022	979

A considerable portion of the increase of deaths in the first part of the year and of the diminution in the latter part was due to the difference in the number of deaths of children under five years of age, as is shown in the following table:

Deaths of Children under Five Years of Age, in 1891 *and* 1892.

	1891.	1892.	Increase.
Deaths first twenty-six weeks, ending July 2	8,926	9,276	350
Deaths next five weeks, ending August 6	2,658	3,440	782
Total	11,584	12,716	1,132
			Decrease.
Deaths last twenty-one weeks, August 6 to December 31.....	6,528	5,861	667

When we consider that the children under five years of age form only a little more than 10 per cent. of the total population, and that they furnish less than one-half of the deaths, while in 1892 they furnished about two-thirds of the increase and decrease respectively, it must be evident that they bore the brunt of any unsanitary influences that existed in the first thirty-one weeks of the year, and felt in a greater degree than others the improved conditions (whatever they may have been) in the last twenty-one weeks of the year. This is what might have been expected, for the amount of sickness and deaths (infant mortality) in this class has always been recognized as one of the best tests of the sanitary conditions of localities.

Among the diseases to which children are especially subject as a result of unsanitary surroundings are diarrhœal diseases, and a comparison of the number of deaths from these diseases for the periods under consideration gives the following result:

Deaths of Children under Five Years of Age from Diarrhœal Diseases.

	1891.	1892.	Increase or Decrease.
First twenty-six weeks, ending July 2.....	759	579	—180
Next five weeks, July 2 to August 6	1,209	1,617	+408
Total	1,968	2,196	+228
Last twenty-one weeks, August 6 to December 31.....	1,217	964	—253

In the month of August the Health Department, anticipating the appearance of cholera, commenced making preparations for the same, and shortly afterward the Mayor issued a proclamation calling upon all of the City Departments and the citizens generally to co-operate with the Board of Health in its efforts to improve the sanitary condition of the city. The response was hearty and prompt, and from the decrease in the death-rate which followed, it may be fairly inferred that the efforts and co-operation of owners of property and citizens generally in securing the cleanliness and improved sanitary condition of their premises are an important service in fostering and improving the public health.

In the week ending August 13 the number of deaths fell to 853, against 1,005 in the corresponding week of 1891, although the mean temperature was only a degree and a half lower, and the deaths of children under five years of age fell to 164 against 211 in 1891. This decrease continued until the close of the year.

The following tabulated statement shows the number of deaths under five and over five years of age, compared weekly for the years 1891 and 1892, and the percentage of each class to the whole mortality :

Week Ending—	No. of Week.	Deaths Under 5 Years of Age.		Percentage of Same on Total Mortality.		Deaths Over 5 Years of Age.		Percentage of Same on Total Mortality.		Total Deaths.	
		1891.	1892.	1891.	1892.	1891.	1892.	1891.	1892.	1891.	1892.
Jan. 9	1	253	330	34.01	33.95	491	642	65.99	66.05	744	972
" 16	2	283	339	36.25	37.38	501	568	63.74	62.62	786	907
" 23	3	284	299	37.97	34.53	464	567	62.03	65.47	748	866
" 30	4	300	325	40.70	37.71	437	537	59.30	62.29	737	862
Feb. 6	5	289	290	39.26	36.71	447	500	60.74	63.29	736	790
" 13	6	306	326	40.53	40.45	449	480	59.47	59.55	755	806
" 20	7	289	322	39.48	35.46	462	586	61.52	64.54	751	908
" 27	8	320	346	40.15	38.02	477	564	59.85	61.98	797	910
Mar. 5	9	291	350	39.59	38.04	444	570	60.41	61.96	735	920
" 12	10	324	357	39.85	38.84	489	562	60.15	61.16	813	919
" 19	11	327	379	38.92	37.18	513	556	61.08	62.82	840	885
" 26	12	300	347	33.52	39.79	595	525	66.48	60.21	895	872
Apr. 2	13	375	322	34.09	36.84	725	552	65.91	63.16	1,100	874
" 9	14	399	399	32.82	40.59	817	584	67.18	59.41	1,216	983
" 16	15	484	370	35.93	39.49	863	567	64.07	60.51	1,347	937
" 23	16	455	350	37.66	38.93	753	549	62.34	61.07	1,208	899
" 30	17	353	368	36.73	38.74	608	582	63.27	61.26	961	950
May 7	18	314	410	34.50	40.92	596	592	65.50	59.08	910	1,002
" 14	19	334	356	38.26	39.69	539	541	61.74	60.31	873	897
" 21	20	290	360	37.33	42.16	487	494	62.67	57.84	777	854
" 28	21	324	362	40.60	42.84	474	483	59.40	57.16	798	845

Week Ending—	No. of Week.	Deaths Under 5 Years of Age.		Percentage of Same on Total Mortality.		Deaths Over 5 Years of Age.		Percentage of Same on Total Mortality.		Total Deaths.	
		1891.	1892.	1891.	1892.	1891.	1892.	1891.	1892.	1891.	1892.
June 4	22	299	374	38.73	43.09	473	494	61.27	56.91	772	868
" 11	23	324	344	43.60	44.85	419	423	56 40	55.15	743	767
" 18	24	447	413	46.96	47.86	505	450	53.04	52.14	952	863
" 25	25	416	431	51.80	52.88	387	384	48.20	47.12	803	815
July 2	26	544	457	59.00	54.08	378	388	41.00	45.92	922	845
" 9	27	581	640	60.71	62.01	376	392	39.29	37.99	957	1,032
" 16	28	666	862	62.01	64.52	408	474	37.99	35.48	1,074	1,336
" 23	29	550	647	58.08	59.85	397	434	41.92	40.15	947	1,081
" 30	30	481	773	55.54	53.91	385	661	44.46	46.09	866	1,434
Aug. 6	31	380	518	49.81	43.86	383	663	50.19	56.14	763	1,181
" 13	32	492	429	48.96	50.29	513	424	51.04	49.71	1,005	853
" 20	33	319	369	41.27	46.77	454	420	58.73	53.23	773	789
" 27	34	376	329	45.52	45.38	450	396	54.48	54.62	826	725
Sept. 3	35	369	335	50.14	46.66	367	383	49.86	53.34	736	718
" 10	36	341	312	45.64	42.68	406	419	54.36	57.32	747	731
" 17	37	339	332	46.57	43.80	389	426	53.43	56.20	728	758
" 24	38	384	332	47.35	44.62	427	412	52.65	55.38	811	744
Oct. 1	39	366	275	49.66	39.91	371	414	50.34	60.09	737	689
" 8	40	325	276	45.01	41.88	397	383	54.99	58.12	722	659
" 15	41	336	270	44.98	36.58	411	468	55.02	63.42	747	738
" 22	42	276	259	40.12	38.95	412	406	59.88	61.85	688	665
" 29	43	275	237	37.31	37.56	462	394	62.69	62.44	737	631
Nov. 5	44	267	253	36.44	34.28	466	485	63.56	65.72	733	738
" 12	45	260	209	33.59	33.71	514	411	66.41	66.29	774	620
" 19	46	253	237	35.44	35.01	461	440	64.56	64.99	714	677
" 26	47	217	211	32.34	31.35	454	462	67.66	68.65	671	673
Dec. 3	48	238	227	35.26	30.88	437	508	64.74	69.12	675	735
" 10	49	250	237	34.06	34.10	484	458	65.94	65.90	734	695
" 17	50	273	238	34.12	32.74	527	489	65.88	67.26	800	727
" 24	51	321	236	36.10	33.48	568	469	63.90	66.52	889	705
" 31	52	251	258	33.29	34.30	503	494	66.71	65.70	754	752

"Farr" lays down the rule that "the determination of the law of mortality requires an extensive area of observation, both in space and time, to eliminate accidental perturbations, and the causes affecting the life of children, of adults, and of old people—of males and females—of persons in different occupations are so various, that we can only hope to unravel

their influence by a general analysis of the phenomena in different places through a series of years." It would, therefore, seem inaccurate to compare the number of deaths from any given disease or diseases in any one year with those from the same disease or diseases in a previous year, as evidence of the healthful condition of the city during the past year, but rather comparison should be made with the average deaths covering the previous decennial period. That there has been a constant and gradual improvement in the health of the people will be more fully demonstrated by the following table, which shows the increase or decrease in 1892 from certain causes, comprising about 81 per cent. of all deaths, as compared with the average annual number of deaths from the same causes for the previous ten years, increased to correspond with the increase of population:

Cause of Death.	Average for Ten Years, 1882–1891, Inclusive.	Same Increased for Increase in Population.	Deaths in 1892.	Increase in 1892.	Decrease in 1892.
Small-pox	51.3	62	81	19	.....
Measles	701.6	843	864	21	.....
Scarlet fever	916.8	1,102	977	.....	125
Typhus fever	14.1	17	45	28	.....
Whooping-cough	479.2	576	371	.....	205
Diphtheria	1,506.6	1,811	1,436	.....	375
Typhoid fever	366.1	440	400	.....	40
Diarrhœal diseases	3,587.9	4,314	3,602	.....	712
Cancer	808	971	996	25	.....
Phthisis and other tuberculous diseases	6,015.5	7,232	6,007	.....	1,225
Premature birth	699.1	840	776	.....	64
Diseases of nervous system	3,251.1	3,909	3,655	.....	254
Diseases of circulatory system	1,995.7	2,399	2,507	108	.....
Diseases of respiratory system	6,999.2	8,402	9,242	840	.....
Diseases of urinary system	2,398	2,883	2,543	.....	340
Puerperal diseases	377	453	140	.....	313
Accident	1,207.5	1,452	1,900	448	.....
Homicide	63.1	76	38	.....	38
Suicide	228.4	275	241	.....	34
All other causes	6,488.9	7,801	8,508	707	.....
Total	38,255.1	45,858	44,329	2,196	3,725
Balance, net decrease					1,529

Thus showing a saving of 1,529 lives of persons in 1892 who would have died during the year, if the mortality had been equal to the average annual mortality for the previous ten years.

CAUSES OF DEATH.

It is a fact beyond dispute that registration of the causes of death form the medium of information to the medical profession and sanitarians generally, that go far to assist in furnishing material upon which to base accurate facts in place of uncertain assertions. The late Registrar-General of England advanced the doctrine that "any improvement in the treatment of disease, and any addition to medical science will tend ultimately to the diminution of human suffering, but the registration of the causes of death is calculated to exercise a still more direct influence upon public health.

"Diseases are more easily prevented than cured, and the first step to their prevention is the discovery of their exciting causes." The following table, compiled from the records of the Department, shows the deaths in this city during the past year from thirty of the principal causes, which covers 86 per cent. of the total mortality; the percentage of each on the total mortality; deaths per 1,000 inhabitants, and by sex; deaths and death-rate under five years of age on the total mortality.

No.	Cause of Death.	Total Deaths, 1892.	Percentage of each Cause on Total Mortality.	Death-rate per 1,000 Living.	Total Deaths.		Total under 5 Years of Age.	Percentage of each Cause under 5 Years on Total Deaths.
					Male.	Female.		
1	Pneumonia	5,841	13.18	3.20	3,363	2,478	2,467	5.97
2	Phthisis	5,033	11.35	2.75	2,917	2,116	158	.36
3	Diarrhœal diseases	3,602	8.13	1.97	1,868	1,784	3,162	7.13
4	Heart disease	2,331	5.26	1.28	1,233	1,098	5	.01
5	Bright's disease	1,991	4.49	1.09	1,078	913	30	.07
6	Accident	1,900	4.29	1.04	1,346	554	280	.63
7	Bronchitis	1,754	3.96	.96	930	824	1,304	2.94
8	Inanition, marasmus, etc	1,474	3.33	.81	788	686	1,466	3.31
9	Diphtheria	1,436	3.24	.79	753	683	1,136	2.56
10	Gastritis, gastro-enteritis and enteritis	1,353	3.05	.74	667	686	1,075	2.43
11	Apoplexy	1,194	2.69	.65	633	561	20	.05
12	Meningitis and encephalitis	1,020	2.30	.56	588	432	688	1.55
13	Cancer	996	2.25	.54	356	640	7	.02
14	Scarlet fever	977	2.20	.53	482	495	684	1.54
15	Measles	864	1.95	.47	451	413	813	1.83
16	Premature birth	776	1.75	.42	442	334	776	1.75
17	Croup	670	1.51	.37	366	304	588	1.33
18	Hydrocephalus and tubercular meningitis	660	1.49	.36	368	292	561	1.27
19	Old age	554	1.25	.30	206	348	....	....
20	Convulsions	511	1.15	.28	274	237	503	1.13

No.	Cause of Death.	Total Deaths, 1892.	Percentage of each Cause on Total Mortality.	Death-rate per 1,000 Living.	Total Deaths.		Total under 5 Years of Age.	Percentage of each Cause under 5 Years on Total Deaths.
					Male.	Female.		
21	Puerperal diseases	417	.94	.23	....	417	....	....
22	Acute nephritis	404	.91	.22	229	175	67	.15
23	Typhoid fever	400	.90	.22	230	170	18	.04
24	Whooping-cough	371	.84	.20	156	215	361	.81
25	Alcoholism	367	.83	.20	291	76	2	.005
26	Cirrhosis of liver	359	.81	.20	225	134	1	.002
27	Peritonitis	257	.58	.14	116	141	33	.07
28	Suicide	241	.54	.13	202	39	....	....
29	Insanity, paresis	234	.53	.13	165	69	....	....
30	Malarial fevers	161	.36	.09	72	89	63	.14
	Total	38,148	.....	....	20,795	17,353	16,397	....
	Total mortality	44,329	.....	....	24,044	20,285	18,684	....
	Percentage of deaths from above diseases on total mortality	86.06	.....	...	86.48	85.55	87.75	....

From the above it will be perceived that diseases of the respiratory organs, namely, pneumonia, phthisis and bronchitis during the past year occupied the first, second and seventh positions, and in point of numbers and together comprised 28.49 per cent. of the total mortality from all causes in this city. It will also be perceived that while the total number of deaths from pneumonia was 5,841 and covered 13.18 per cent. of the total mortality, that 2,647, or 45.32 per cent., are those of children under five years of age. It will be noticed that although the total number of deaths from phthisis was 5,033 and was 11.35 per cent. of the total mortality from all causes, only 158, or 3.14 per cent., was those of children under five years of age.

Of bronchitis while there were 1,754 deaths, which was equal to 3.96 per cent. of the total mortality from all causes, 1,304 (or 74.35 per cent.) were those of children under five years of age.

It will be observed that each of these diseases was more fatal to males than females, as follows :

	Males.	Females.
Pneumonia	3,363	2,478
Phthisis	2,917	2,116
Bronchitis	930	824
Total	7,210	5,418

These figures are so interesting that we have thought it best to present detailed statistics in connection with each of these diseases covering a period embracing the past eleven years.

Pneumonia.

Deaths According to Age, with Percentage on Total Mortality for 1892.

	Under 5 Years.	5 to 10.	10 to 20.	20 to 25.	25 to 35.	35 to 45.	45 to 55.	55 to 65.	65 and Over.	Total.
Number of deaths.....	2,646	163	165	200	599	595	491	486	495	5,841
Percentage at each age..	45.32	2.79	2.83	3.42	10.25	10.19	8.41	8.32	8.47	100.00

Average Number of Deaths (Pneumonia).

Monthly	$486\frac{9}{12}$
Weekly	$112\frac{17}{52}$
Daily	$15\frac{220}{366}$

Number of Deaths.

January	648
February	609
March	685
April	691
May	711
June	385
July	301
August	255
September	254
October	340
November	464
December	498
First quarter	1,942
Second quarter	1,787
Third quarter	810
Fourth quarter	1,302

Year.	Total Mortality.	Deaths from Pneumonia.	Percentage on Total Mortality.	Death-rate.
1882	37,924	3,472	9.16	2.68
1883	34,011	3,409	10.02	2.54
1884	35,034	3,159	9.02	2.28
1885	35,682	3,650	10.23	2.54
1886	37,351	3,656	9.79	2.46
1887	38,933	3,707	9.52	2.41

Year.	Total Mortality.	Deaths from Pneumonia.	Percentage on Total Mortality.	Death-rate.
1888	40,175	4,288	10.67	2.69
1889	39,679	4,075	10.27	2.47
1890	40,103	4,989	12.44	2.92
1891	43,659	5,818	13.33	3.30
Total	382,551	40,223	10.51	2.51
1892	44,329	5,841	13.18	3.20

Pneumonia, 1892.

Ward.	Population.	Total Deaths.	Death-rate.	Deaths from Pneumonia.	Percentage of Total Mortality.	Pneumonia Death-rate.
First	12,852	606	47.00	90	14.85	6.98
Second	1,613	22	13.64	3	13.64	1.86
Third	3,651	103	28.21	12	11,65	3.29
Fourth	20,655	845	40.91	163	19.29	7.89
Fifth	13,832	410	29.64	43	10.49	3.11
Sixth	24,631	738	29.96	118	15.99	4.79
Seventh	66,376	1,677	25,26	298	17.77	4.49
Eighth	44,745	1,172	26.20	152	12.97	3.40
Ninth	64,334	1,589	24.70	221	13.91	3.44
Tenth	68,440	1,407	20.56	229	16.28	3.35
Eleventh	89,018	2,006	22.53	315	15.70	3.54
Twelfth	294,379	7,255	24.64	913	12.59	3.10
Thirteenth	55,175	1,041	18.87	185	17.77	3.35
Fourteenth	32,854	1,072	32.62	167	15.58	5.08
Fifteenth	34,938	639	18.29	79	12.36	2.26
Sixteenth	65,622	1,357	20.68	163	12.01	2.48
Seventeenth	115,065	2,642	22.96	340	12.87	2.95
Eighteenth	75,093	1,765	23.50	196	11.10	2.61
Nineteenth	275,360	6,826	24.79	819	12.00	2.97
Twentieth	100,255	2,660	26.53	317	11.92	3.16
Twenty-first	84,068	1,973	23.47	234	11.86	2.78
Twenty-second	197,599	4,417	22.35	586	13.27	2.97
Twenty-third	64,571	1,683	26.06	160	9.51	2.48
Twenty-fourth	22,230	424	19.07	38	8.96	1.71
	1,827,396	44,329	24.26	5,841	13.18	3.20

From the above table it will be noticed that pneumonia caused 5,841 deaths during the pas year, or 13.18 per cent. of the total mortality from all causes; the greatest mortality occurring in the first five months of the year.

The age periods when the greatest number of deaths, 5,313, or 90.96 per cent. of the whole number, occurred were under five years and above twenty-five years of age. Of 382,551 deaths from all causes occurring during the past ten years, 40,223, or 10.51 per cent., were chargeable to pneumonia. The percentage of total mortality has increased from 9.16 per cent. in 1882 to 13.18 in 1892, and was greatest the Fourth, Seventh, Thirteenth and Tenth Wards.

PHTHISIS.

Deaths According to Age, with Percentage on Total Mortality for 1892.

	Under 5 Years.	5 to 10.	10 to 20.	20 to 25.	25 to 35.	35 to 45.	45 to 55.	55 to 65.	Over 65.	Total.
Number of deaths.....	158	39	349	652	1,523	1,112	666	324	210	5,033
Percentage at each age..	3.14	.78	6.93	12.95	30.26	22.10	13.23	6.44	4.17	100.00

Average Number of Deaths (Phthisis).

Monthly	$419\frac{5}{12}$
Weekly	$96\frac{41}{52}$
Daily	$13\frac{270}{366}$

Number of Deaths.

January	468
February	415
March	511
April	516
May	451
June	363
July	407
August	362
September	389
October	360
November	364
December	427
First quarter	1,394
Second quarter	1,330
Third quarter	1,158
Fourth quarter	1,151

Year.	Total Mortality.	Deaths from Phthisis.	Percentage on Total Mortality.	Death-rate.
1882	37,924	5,247	13.84	4.05
1883	34,011	5,290	15.55	3.94
1884	35,034	5,235	14.94	3.77
1885	35,682	5,196	14.56	3.62
1886	37,351	5,447	14.58	3.66
1887	38,933	5,260	13.51	3.42
1888	40,175	5,260	13.09	3.30
1889	39,679	5,179	13.05	3.14
1890	40,103	5,492	13.69	3.22
1891	43,659	5,160	11.82	2.92
Total	382,551	52,766	13.79	3.29
1892	44,329	5,033	11.35	2.75

Deaths, Percentages and Death-rates, by Wards.

Ward.	Population.	Total Deaths.	Death-rate.	Deaths from Phthisis.	Percentage of Total Mortality.	Death-rate.
First	12,892	606	47.00	92	15.18	7.14
Second	1,613	22	13.64	2	9.09	1.24
Third	3,651	103	28.21	10	9.71	2.74
Fourth	20.655	845	40.91	120	14.20	5.81
Fifth	13,832	410	29.64	54	13 17	3.90
Sixth	24,631	738	29.96	122	16.53	4.95
Seventh	66,376	1,677	25.26	184	10.97	2.77
Eighth	44,745	1,172	26.20	152	12.97	3.40
Ninth	64,334	1,589	24.70	191	12.02	2.97
Tenth	68,440	1,407	20.56	153	10.87	2.24
Eleventh	89,018	2,006	22.53	217	18.82	2.44
Twelfth	294,379	7,255	24.64	730	10.06	2.48
Thirteenth	55,175	1,041	18.87	84	8.07	1.52
Fourteenth	32,854	1,072	32.62	103	9.61	3.14
Fifteenth	34,938	639	18.29	90	14.08	2.58
Sixteenth	65,622	1,357	20.68	171	12.60	2.61

Ward.	Population.	Total Deaths.	Death-rate.	Deaths from Phthisis.	Percentage of Total Mortality.	Death-rate.
Seventeenth	115,065	2,642	22.96	365	13.81	3.17
Eighteenth	75,093	1,765	23.50	231	13.09	3.08
Nineteenth	275,360	6,826	24.79	724	10.61	2.63
Twentieth	100,255	2,660	26.53	325	12.22	3.24
Twenty-first	84,068	1,973	23.47	245	12.42	2.91
Twenty-second	197,599	4,417	22.35	458	10.37	2.32
Twenty-third	64,571	1,683	26 c6	163	9.68	2.52
Twenty-fourth	22,230	424	19.07	47	11.09	2.11
Total	827,396	44,329	24.26	5,033	11.35	2.75

From the above it will be observed that phthisis caused 5,033 deaths during the past year, or 11.35 per cent. of the total mortality from all causes; the greatest mortality occurring in the first five and last months of the year.

The age period when the greatest number of deaths, 2,635, or 52.36 per cent. of all of the deaths, occurred was between twenty-five and forty-five years of age. Of 382,551 deaths from all causes during the past ten years, 52,766, or 13.79 per cent., were chargeable to phthisis. The percentage of mortality has decreased from 13.84 in 1882 to 11.35 in 1892, and was greatest in the Sixth, First, Fourth and Fifteenth Wards.

Bronchitis.

Deaths According to Age, with Percentage on Total Mortality for 1892.

	Under 5 Years.	5 to 10.	10 to 20.	20 to 25.	25 to 35.	35 to 45.	45 to 55.	55 to 65.	65 and Over.	Total.
Number of deaths	1,304	26	9	16	46	46	75	74	158	1,754
Percentage at each age	74.35	1 48	.51	.91	2.62	2.62	4.28	4.22	9.01	100.00

Average Number of Deaths (Bronchitis).

Monthly	146$\frac{2}{12}$
Weekly	33$\frac{88}{88}$
Daily	4$\frac{880}{888}$

Number of Deaths.

January	221
February	179
March	206

April	195
May	185
June	125
July	106
August	57
September	107
October	104
November	132
December	137

First quarter	606
Second quarter	505
Third quarter	270
Fourth quarter	373

Year.	Total Mortality.	Deaths from Bronchitis.	Percentages on Total Mortality.	Death-rate.
1882	39,924	1,583	4.17	1.22
1883	34,011	1,435	4.22	1.07
1884	35,034	1,485	4.24	1.07
1885	35,682	1,605	4.50	1.12
1886	37,351	1,701	4.55	1.14
1887	38,933	1,838	4.72	1.19
1888	40,175	1,892	4.71	1.19
1889	39,679	1,814	4.57	1.10
1890	40,103	1,987	4.95	1.16
1891	43,659	1,836	4.21	1.04
Total	382,551	17,176	4.49	1.07
1892	44,329	1,754	3.96	.96

Bronchitis, 1892.

Ward.	Population.	Total Deaths.	Death-rate.	Deaths from Bronchitis.	Percentage of Total Mortality.	Death-rate.
First	12,892	606	47.00	30	4.95	2.33
Second	1,613	22	13.64	..	....	. ..
Third	3,651	103	28.21	1	.97	.27

Ward.	Population.	Total Deaths.	Death-rate.	Deaths from Bronchitis.	Percentage of Total Mortality.	Death-rate.
Fourth	20,655	845	40.91	53	6.27	2.57
Fifth	13,832	410	29.64	15	3.66	1.08
Sixth	24,631	738	29.96	64	8.67	2.60
Seventh	66,376	1,677	25.26	60	3.58	.90
Eighth	44,745	1,172	26.20	70	5.97	1.56
Ninth	64,334	1,589	24.70	42	2.64	.65
Tenth	68,440	1,407	20.56	47	3.34	.68
Eleventh	89,018	2,006	22.53	84	4.19	.94
Twelfth	294,379	7,255	24.64	284	3.91	.96
Thirteenth	55,175	1,041	18.87	33	3.17	.60
Fourteenth	32,854	1,072	32.62	118	11.01	3.59
Fifteenth	34,938	639	18.29	32	5.01	.92
Sixteenth	65,622	1,357	20.68	51	3.76	.78
Seventeenth	115,065	2,642	22.96	99	3.75	.86
Eighteenth	75,093	1,765	23.50	67	3.80	.89
Nineteenth	275,360	6,826	24.79	185	2.71	.67
Twentieth	100,255	2,660	26.53	112	4.21	1.12
Twenty-first	84,068	1,973	23.47	47	2.38	.56
Twenty-second	197,599	4,417	22.35	170	3.85	.86
Twenty-third	64,571	1,683	26.06	74	4.40	1.15
Twenty-fourth	22,230	424	19.07	16	3.77	.72
Total	1,827,396	44,329	24.26	1,754	3.96	.96

From the above it will be perceived that bronchitis caused 1,754 deaths during the past year, or 3.96 per cent. of the total mortality from all causes. The greatest mortality occurring in the first six months of the year.

The age period when the greatest number, 1,304, or 74.35 per cent., of the deaths occurred was under five years of age.

Of 382,551 deaths from all causes during the past ten years, 17,176, or 4.49 per cent., were chargeable to bronchitis.

The percentage of mortality has decreased from 1.22 per cent. in 1882 to 0.96 per cent. in 1892, and was greatest in the Fourteenth, Sixth, Fourth and Eighth Wards.

The following table shows the total number of deaths from phthisis, pneumonia and bronchitis for the past year; the percentage of the same on total mortality, with death-rate from the three causes:

PHTHISIS, PNEUMONIA AND BRONCHITIS, 1892.

WARD.	POPULATION.	TOTAL DEATHS.	DEATH-RATE.	DEATHS FROM PHTHISIS, PNEUMONIA AND BRONCHITIS.	PERCENTAGE OF THE THREE CAUSES ON TOTAL MORTALITY.	DEATH-RATE FROM THE THREE CAUSES.
First	12,892	606	47.00	212	34.98	16.45
Second	1,623	22	13.64	5	22.73	3.10
Third	3,651	103	28.21	23	22.33	6.30
Fourth	20,655	845	40.91	336	39.76	16.27
Fifth	13,832	410	29.64	112	27.32	8.09
Sixth	24,631	738	29.96	304	41.19	12.34
Seventh	66,376	1,677	25.26	542	32.32	8.16
Eighth	44,745	1,172	26.20	374	31.91	8.36
Ninth	64,334	1,589	24.70	454	28.57	7.06
Tenth	68,440	1,407	20.56	429	30.49	6.27
Eleventh	89,018	2,006	22.53	616	30.71	6.92
Twelfth	294,379	7,255	24.64	1,927	26.56	6.54
Thirteenth	55,175	1,041	18.87	302	29.01	5.47
Fourteenth	32,854	1,017	32.62	388	36.20	11.81
Fifteenth	34,938	639	18.29	201	31.45	5.76
Sixteenth	65,622	1,357	20.68	385	28.37	5.87
Seventeenth	115,065	2,642	22 96	804	30.43	6.98
Eighteenth	75,093	1,765	23.50	494	27.99	6.58
Nineteenth	275,360	6,826	24.79	1,728	25.32	6.27
Twentieth	100,255	2,660	26.53	754	28 35	7.52
Twenty-first	84,068	1,973	23.47	526	26.66	6.25
Twenty-second	197,599	4 417	22.35	1,214	27.49	6.15
Twenty-third	64,571	1,683	26.06	397	23.59	6.15
Twenty-fourth	22,230	424	19.07	101	23 82	4.54
Total	1,827,396	44,329	24.26	12,628	28.49	6.91

From the above it will be observed that 12,628 deaths occurred during the past year from these three diseases out of a total mortality of 44,329, and that while the average was 28.49 per cent. of the total mortality, it was highest in the Sixth, Fourth, Fourteenth and First Wards, and lowest in the Third, Second, Twenty-third and Twenty-fourth Wards.

The following table shows the deaths from phthisis, pneumonia and bronchitis for the past ten years with percentage of the total mortality and death-rates :

Year.	Total Mortality.	Deaths from Phthisis.	Deaths from Pneumonia.	Deaths from Bronchitis.	Total.	Percentage of the Three Causes on Total Mortality.	Death-rate from the Three Causes.
1882	37,924	5,247	3,472	1,583	10,302	27.17	7.95
1883	34,011	5,290	3,409	1,435	10,134	29.79	7.55
1884	35,034	5,235	3,159	1,485	9,879	28.20	7.12
1885	35,682	5,196	3,650	1,605	10,451	29.29	7.28
1886	37,351	5,447	3,656	1,701	10,804	29.92	7.26
1887	38,933	5,260	3,707	1,838	10,805	27.75	7.02
1888	40,175	5,260	4,283	1,892	11,440	28.47	7.18
1889	39,679	3,179	4,075	1,814	11,068	27.89	6.71
1890	40,103	5,492	4,989	1,987	12,468	31.08	7.30
1891	43 659	5,160	5,818	1,836	12,814	29.36	7.26
1882 to 1891, inclusive	382,551	52,766	40,223	17,176	110,165	28.79	6.87
1892	44,329	5,033	5,841	1,754	12,628	28.49	6.91

From the above it will be noticed that of 382,851 deaths from all causes during the past ten years, 52,766, or 28.79 per cent., were chargeable to phthisis, pneumonia and bronchitis. As to the effect of density of population upon these three causes of death we present the following table showing the population, area and density by wards :

Population, Area and Density by Wards.

Ward.	Population.	Number of Acres.	Density per Acre.	
First	12,892	154.	83.7	Newly arrived immigrants, longshoremen, Syrians.
Second	1,613	81.	19.9	Business.
Third	3,651	95.	38.4	"
Fourth	20,655	83.	248.8	Italians, sailor boarding-houses, Irish-Americans.
Fifth	13,832	168.	82.3	Some Italians.
Sixth	24,631	86.	286.4	Italians (The Bend), Chinese, German and Polish Jews.
Seventh	66,376	198.	335.2	Irish-Americans, Polish Jews.
Eighth	44,745	183.	244.5	Italians, Negroes, a few French.
Ninth	64,334	322.	199.8	Natives, Irish.
Tenth	68,440	110.	622.2	Russian Jews, Germans.

WARD.	POPULATION.	NUMBER OF ACRES.	DENSITY PER ACRE.	
Eleventh	89,018	196.	454.1	Irish and Hungarians, Germans, a few Bohemians.
Twelfth	294,379	5,504.13	53.5	An Italian colony (Little Italy); a Negro colony, mostly natives; a good many Jews of better class.
Thirteenth.....	55,175	107.	515 6	Germans, Jews, natives.
Fourteenth	32,854	96.	342.3	Italians, Irish.
Fifteenth	34,938	198.	176.4	French, Italians and a few Negroes.
Sixteenth.....	65,622	348.77	188.1	Irish and natives.
Seventeenth	115,065	331.	347.6	Germans, natives.
Eighteenth.....	75,093	449.89	166.9	Natives and Irish.
Nineteenth	275,360	1,480.60	185.9	Natives, Germans, Jews of better class, Bohemians.
Twentieth	100,255	444.	225.8	Natives, Irish-Americans.
Twenty-first....	84,068	411.	204.5	" "
Twenty-second .	197,599	1,529.42	129.2	Natives.
Twenty-third...	64,571	4,267.023	15.1	"
Twenty-fourth..	22,230	8,050.323	2.8	"
	1,827,396	24,893.156	73.4	

CONTAGIOUS AND INFECTIOUS DISEASES.

During the year there was a small increase in the total number of reported cases of contagious diseases over those of the previous year, there being 26,250 as against 25,668 in 1891.

The number of cases of scarlet fever for the past year was 7,548 with 977 deaths, as against 7,442 cases with 1,220 deaths in 1891. The number of cases of diphtheria was 4,654 with 1,436 deaths, as against 4,874 cases with 1,361 deaths in 1891. The number of cases of measles was 12,700 with 804 deaths, as against 11,980 cases with 663 deaths in 1891. The number of cases of typhoid fever was 1,140 with 400 deaths, as against 1,342 cases with 384 deaths in 1891. The number of cases of small-pox was 378 with 81 deaths, as against 21 cases with 2 deaths in 1891. The number of cases of typhus fever was 378 with 40 deaths, as against 9 cases with 1 death in 1891. For the first time in twenty-six years cholera (Asiatica) scored 10 cases with 9 deaths.

In carrying on the work of the Division of Contagious Diseases, the force was divided into Diagnosticians, Medical Sanitary Inspectors, Vaccinators and an Ambulance Corps.

The city was divided into seven sanitary districts, one Diagnostician being assigned to each, his special duty requiring him to be familiar with the symptoms, treatment and causes of contagious diseases and with the diagnosis and the disposition of all cases reported, either by the removal of the same to one of the hospitals of the Department or isolation (in their own premises) as the necessities of the case required. The Diagnosticians were on duty continuously day and night, and being in close telephonic communication with the Department, all cases reported received immediate attention.

If the diagnosis was confirmed and the case was one for removal, a card giving the history

of the patient and the character of the disease was left with the family to be delivered to the ambulance driver as his authority at the time of the removal. Cases which were regarded by the Diagnosticians as doubtful or suspicious were kept under observation when found, and visited daily until the diagnosis was finally determined. When a case was not removed the house was visited twice each week to determine if the isolation was properly maintained, in order to ascertain the time of the patient's recovery to enable the Department to immediately fumigate and disinfect the premises. In hotels and institutions the action taken depended entirely upon the exigencies of each case. In private dwellings the inspector merely called to deliver circulars containing rules for disinfection, etc., and notify the family that the Department would, if so desired by the family physician, fumigate and disinfect when the patient had fully recovered. If the patient was a child all the children in the house were excluded from school.

Cases suspicious of typhus fever or small-pox were removed to the Reception Hospital for observation.

When it is understood that difficult and complicated cases were constantly arising where a diagnosis had to be made at once, and that obstacles at times were presented by persons who endeavored to conceal cases, and the trouble with which a diagnosis had to be made in filthy and insufficiently lighted apartments, it will be appreciated that the work of a diagnostician could only be performed by a physician of experience, tact and judgment.

The Medical Sanitary Inspectors were assigned to districts into which the city was divided. Each received daily by the Police in the morning and by mail in the afternoon, reports of contagious diseases occurring in their districts (except typhus fever, small-pox and cholera, which were investigated by the Diagnosticians), calling at once at the address given. If the case occurred in a tenement or apartment house the Inspector left a circular giving directions for disinfection, etc., etc., and explained the order of the Health Department requiring strict isolation, but he was not allowed to examine the patient, the diagnosis of the attending physician being accepted. The several families throughout the house were then informed of the existence of the disease, and children on the same floor prevented from attending school, but if there were cases on different floors, all of the children throughout the house were prevented from attending school, the Principals being notified by postal card sent by the Inspector, and the Board of Education officially informed by the Department of the existence of the disease in said premises. The children thus excluded from the schools were not allowed to attend the same until the final recovery of the case and disinfection of the premises.

The following table shows in detail the work of the Diagnosticians and Medical Inspectors for the year :

Cases of Contagious Diseases Reported to this Division and Referred to the Diagnosticians and Medical Sanitary Inspectors.

Typhus fever	241	Diphtheria	4,654
Typhoid fever	1,140	Small-pox	378
Scarlet fever	7,048	Cholera	9
Measles	12,780	Total	26,250

Other Diseases Reported and Referred to Inspectors.

Cerebro-spinal meningitis	87	Phthisis	4,008
Varicella	563	Tabes mesenterica	5
Malarial fever	54	Parotitis	21
Croup	530	Erysipelas	53
Dysentery	1	Leprosy	3
Tubercular meningitis	393	Total	5,718

Typhus Fever.

Typhus fever, which had come to be almost an unknown disease in New York City since 1886, developed in the early part of February to an extent which would, without doubt, have resulted in an epidemic, had not the Medical Inspectors of this Department, under the efficient direction of Drs. Cyrus Edson and Charles F. Roberts, succeeded in stamping it out by a system of well-directed efforts, added to a tireless patience and unceasing vigilance. On the 11th day of February four postal cards were received at the office of the Division of Contagious Diseases, informing the Department that four cases of typhoid fever had developed at No. 42 East Twelfth street. It was so unusual a circumstance to have four cases of typhoid reported from one house that Dr. Edson made a personal visitation, and upon examination found, instead of four cases of typhoid, there were fifteen well-developed cases of that most dreaded of all contagious diseases, typhus fever. The patients were immediately removed to the Reception Hospital en route for Riverside Hospital, and an investigation set on foot to determine the origin and cause of the disease. Before eight o'clock the same evening it was found that the steamship "Massilia" had arrived at this port on the 30th of January with 248 Russian Hebrews and upwards of 400 Italians. The Hebrews, through the agency of the Hirsch Fund, were under the immediate charge of the United Hebrew Charities Association, and, with the exception of 17 persons, were located in eight boarding-houses in this city, to wit: No. 42 East Twelfth street, No. 5 Essex street, No. 31 Monroe street, No. 166 Division street, No. 85 Monroe street, No. 46 Delancey street, No. 84 Norfolk street and No. 45 Pike street. A careful inspection and examination was immediately made of these houses and the inmates thereof, which resulted in the finding of 52 cases of typhus in addition to those already removed. During that night all of the remaining people were removed from six of the houses to No. 5 Essex street and No. 42 East Twelfth street, and placed in quarantine under strict sanitary surveillance, the vacated houses being thoroughly cleansed and disinfected. It became necessary to arrange for increased accommodations at North Brother Island, not only for those that might be expected to develop the fever, but for those who had been exposed to the contagion. Four permanent pavilions, each about seventy-five feet in length, properly plumbed and heated for the use of the sick, were erected and completed, and also hospital tents, heated by steam, sufficient in number to accommodate as "suspects" all those who had not developed the disease. On the 6th of March all those who had not developed typhus, but who had been exposed to the contagion, were removed to North Brother Island and there isolated until twenty-one days after the last case had developed amongst them. From among the 248 Hebrew passengers by the "Massilia" 138 cases of fever developed. The first case among residents occurred on February 19 at No. 53 Bowery, and up to

and including the 1st of June 70 cases occurred, 53 of which were in each of 53 houses, and the other 17 in 3 houses. Other cases occurred up to July 18, after which time until November 30 the city seemed to be entirely free from the disease. On the 30th day of November a case developed in Ward 17 of Bellevue Hospital, from a lodging-house, No. 173 Park Row, since which time 17 cases have occurred in several of the other lodging-houses in this city.

The following table shows the total number of cases, deaths, rate of mortality to the whole number, and classifies the same among immigrants and residents of this city :

Places.	Cases.	Deaths.	Rate of Mortality.
From Steamship "Massilia"	138	13	9.42
From Quarantine	7	..	....
From residents	83	27	32.33
From nurses, helpers and police	31	5	16.10
Total	241	45	17.87

Small-pox.

The first supposed case of small-pox in the city during the year was reported to the Health Department on the 18th of January, from the premises No. 141 Sullivan street, in the person of an Italian boot-black, and although upon investigation the diagnosis was not confirmed, the fact was developed that on the upper floor of the same house four cases of well developed small-pox were concealed, the stage of the disease varying from four to seven days. These cases were at once removed to Riverside Hospital (North Brother Island), the premises thoroughly fumigated, the occupants of the house and the adjoining ones vaccinated and visited daily for twenty-one days. Cases continued to be reported from time to time throughout the year, the result being the discovery of 378 in all. Whenever a case was reported, it was investigated at once, and if the diagnosis was confirmed, it was immediately removed to the hospital, the premises fumigated, and each person vaccinated and visited daily for twenty-one days. An examination of the report of Dr. Charles F. Roberts will show in detail the progress of the disease during the year, and the several centres of contagion.

For the prevention of small-pox, this Department has an organized corps of physicians (Act of 1874), who are known as Permanent Inspectors of Vaccination, in addition to which other physicians, who are known as Temporary Inspectors of Vaccination, are appointed in the early spring and autumn months, all of whom are charged with the specific duty of offering, by house-to-house visitation, free vaccination to all persons needing it, thus preventing the laying of the foundation for the occurrence and spread of small-pox. Under the provisions of section 97 of the sanitary regulations of the Board of Education, no pupil is allowed to attend any school, nor can any teacher be employed in the same, unless such pupil or teacher has been properly vaccinated ; and as a prerequisite for the admission, employment or attendance of a pupil or teacher, the principal of the school must be furnished with a certificate of a physician in good standing, as evidence of such vaccination, and is required to co-operate with such agents of the Board of Health

as may be authorized to visit the schools for the purpose of examining and vaccinating the pupils, and must require revaccination of all pupils ascertained by the agents of the Board of Health not to be fully protected by a former vaccination, and no pupil refusing to be so vaccinated, either by the agent of the Board of Health or by the physician of the family to which he or she belongs, shall be permitted to attend any public school until such requirement is fully complied with. In accordance with the above regulation, pupils of the various schools are vaccinated by the special Inspectors of Vaccination, who visit the schools during school hours and vaccinate all pupils, unless some good reason for non-vaccination be presented by the teacher, pupil or parent. The amount of work performed by the Inspectors of the Department has been constantly increased, as is evidenced by the following table :

Year.	Primaries.	Revaccinations.	Total Vaccinations and Revaccinations.
1889	26,336	48,206	74,542
1890	30,329	61,788	92,047
1891	25,505	84,132	109,637
1892	41,778	98,027	139,805

Prior to 1877 small-pox held its place as one of the principal of the contagious diseases in this city, both as to number of cases and mortality ; but as the result of the work of the Inspectors of Vaccination, first appointed in September, 1874, it has grown to be only an occasional disease. The result of the work of the Vaccinating Corps did not begin to show itself until 1877. The following table shows by comparison the number of deaths from small-pox, population and rate per 100,000 each year from 1869 to 1892 :

Year.	Deaths.	Population.	Death-rate Per 100,000.	Year.	Deaths.	Population.	Death-rate Per 100,000.
1869	203	896,034	22.66	1881	451	1,252,017	36.02
1870	293	943,300	31.06	1882	259	1,295,805	19.99
1871	805	955,921	84.22	1883	12	1,341,124	.89
1872	929	968,710	95.90	1884	....	1,388,028	....
1873	117	581,671	11.92	1885	26	1,436,572	1.81
1874*	484	1,030,607	46.95	1886	31	1,486,814	2.08
1875	1,280	1,044,396	122.55	1887	99	1,538,814	6.43
1876	315	1,075,532	29.29	1888	81	1,592,632	5.09
1877	14	1,107,597	1.26	1889	1	1,648,332	.06
1878	2	1,140,617	.17	1890	2	1,705,980	.117
1879	25	1,174,621	2.13	1891	2	1,765,645	.113
1880	31	1,209,709	2.56	1892	81	1,827,396	4.43

* September 29, 1874, Vaccinating Corps organized.

It will be noticed from the above table that the years 1877 to 1880, from 1883 to 1886, and from 1889 to 1891, were years of low mortality, while the intervening years were those of high mortality. From an examination of the table of vaccinations, it will be perceived, and it is the fact, that the Inspectors are not able to vaccinate all of the children born each year other than those vaccinated by physicians in their private practice. The only reason that can be given is that a number of persons decline to allow their children to be vaccinated, and as the law is not compulsory, but only permissive, the demand for vaccination cannot be enforced. The result is that a certain percentage of persons are unvaccinated, and these furnish material on which small-pox is persistently kept alive. As a perfect vaccination, followed by revaccination after a term of years, seems to be almost a perfect protection, it would seem that it would be a wise measure to amend the law so as to make vaccination and revaccination compulsory. The vaccine virus used by the Inspectors is produced by a branch of the Department known as the "Vaccine Laboratory," and all surplus virus is sold to applicants from this and other cities at a fixed price, the proceeds thereof being turned into the City Treasury, to be used in paying the services of the Temporary Inspectors of Vaccination. In the case of primary vaccinations, strict supervision is made of the work. Each Inspector is required to report his primary vaccinations, and the persons so vaccinated are visited by another Inspector, whose duty it is to report whether or not they were successfully done. The net cost per vaccination to the Department for each person vaccinated was 11½ cents in 1892.

The following table shows by comparison the vaccinations performed by the Vaccinating Corps for the past five years, the sale of virus, salaries of Inspectors, the cost of virus, and cost per vaccination to the Department for each person vaccinated :

	1888.	1889.	1890.	1891.	1892.
Cash received for virus	$2,791 06	$2,459 22	$1,622 51	$2,096 13	$3,279 07
Salaries, regular vaccinators	$12,733 79	$10,599 92	$11,043 25	$9,900 00	$9,900 00
Salaries, temporary vaccinators	4,008 80	3,987 21	3,523 46	2,981 82	6,545 16
Total salaries	$16,742 59	$14,587 13	$14,566 71	$12 881 82	$16,445 16
Cost of calves and cattle	$2,621 00	$2,925 00	$1,857 00	$1,752 00	$1,856 00
Cost of feed	476 95	368 60	264 00	339 50	334 75
Other supplies	1,029 78	1,033 86	805 45	116 60	716 17
Rent	.....	.....	.....	600 00	600 00
Total cost of supplies	$4,127 73	$4,327 46	$2,926 45	$2,808 16	$3,506 92
Number of vaccinations	83,063	74,542	92,047	109,637	137,805
Cost of each vaccination	$0.21¼	$0.22+	$0.17+	$0.12+	$0.11½+

The following miscellaneous work was performed by the Chief Inspector of Vaccination :

Number of animals vaccinated for cultivation and propagation of virus	158
Number of quill slips collected	248,100
Number of ivory points collected	30,850
Number of tubes of virus collected	299

Cholera.

Cholera having taken up its line of march from Persia, through Russia, until it reached Hamburg in Germany, the authorities of the City of New York were in a measure forewarned of the danger, and consequently taking time by the forelock were enabled to place themselves in a better position to cope with it than ever before. The plan of campaign was mapped out with care and as rapidly as possible. In one respect we were fortunate in having cholera to handle. It being a disease the germs of which must be actually taken into the mouth, we had certain well-defined channels to guard. Had the disease been one of those which can travel through the air, the work before us would have been much more complex.

The first step taken was to look to the water supply, necessary inspection of the Croton watershed being made under the order of the Commissioner of Public Works. The streets were thoroughly cleansed, the ashes and garbage being promptly removed, the Police Department co-operating in every way through its Patrolmen, who were instructed to report daily anything that might in any way be considered a nuisance or detrimental to health. In fact, the heads of all the City Departments were constituted Sanitary Inspectors for the time being. Instructions were given to the Inspectors of Food and Milk to be especially vigilant, the result of which was the seizure and destruction of 1,197,950 pounds of meat, fish, fruit, vegetables and milk during the months of August, September and October. The Summer Corps, consisting of fifty physicians who had been on duty during the months of July and August, were continued in the service during the months of September, October and November, which, added to the permanent corps of Medical Inspectors under Dr. Charles F. Roberts, the Chief Inspector of Contagious Diseases, gave us a body of thoroughly tried men. A careful inspection under the direction of Dr. Cyrus Edson, the Sanitary Superintendent, was made of the 39,587 tenement-houses in the city. Instructions were issued to the Sanitary Inspectors, ordering the closing of old wells, which might through seepage be contaminated with sewage ; the cleaning and disinfecting of old vaults, school sinks and closets, depressed gutters and gutter covers, depressed yards, areas and sidewalks. Orders were issued to clean, disinfect, whitewash and overhaul all tenements and rookeries, putting in thorough repair all yard hydrants, defective water-pipes, roof leaders and sinks, the cleansing of roofs and water tanks, and especially the providing of covers for roof tanks on tenement-houses. The object of these orders was to strike at the breeding places of the allies of cholera, as well as of cholera itself. We desired to destroy all collections of matter which would supply the germ of other zymotic diseases, and in the case of roof tanks, to protect them in such a way that cholera germs could by no means enter them and thus poison the water they contained. Instructions were issued to Dr. Cyrus Edson to divide the tenement-house portion of the city (should cholera appear) into cholera districts, ranging from one block upward in size, according to the extent and severity and location of the disease, to each of which to assign one or more physicians and one or more nurses. The

Medical Inspectors were instructed to make house-to-house visits, hunting up all persons affected with intestinal diseases.

They were instructed to prescribe at once for all persons so affected, and to give sanitary directions as to food, drink and care of the sick, and all cases were to be reported at once, extreme care being taken in the examination of those exposed to infection. Precautions were to be taken to watch symptoms, and every case of a suspicious nature was to be isolated at once. Nurses to be divided into relays to attend to the food, ventilation and drink for the sick, and to see that cleanliness was observed. Under the direction of Dr. Herman M. Biggs, Chief Inspector of Pathology, Bacteriology and Disinfection, each district was to have two Disinfectors, abundantly supplied with disinfectants from a central station. Houses in which cholera should make its appearance were to be scrubbed thoroughly with a bi-chloride solution, the waste-pipes and sinks being flushed with it. All rooms were to be fumigated and all clothing or textile fabrics and bedding were to be boiled in the solution or destroyed.

On the 30th day of August the following circular (printed in English, German, French, Spanish, Italian and Hebrew) of instructions was issued and distributed to the public:

HEALTH DEPARTMENT,
NEW YORK, August 30, 1892.

PREVENTION OF CHOLERA EASIER THAN CURE.

How Caught.

Healthy persons "catch" cholera by taking into their systems through the mouth, as in their food or drink, or from their hands, knives, forks, plates, tumblers, clothing, etc., the germs of the disease which are always present in the discharges from the stomach and bowels of those sick with cholera.

Thorough cooking destroys the cholera germs; therefore:

Don't eat raw, uncooked articles of any kind, not even milk.

Don't eat or drink to excess. Use plain, wholesome, digestible food, as indigestion and diarrhœa favor an attack of cholera.

Don't drink unboiled water.

Don't eat or drink articles unless they have been thoroughly and recently cooked or boiled, and the more recent and hotter they are, the safer.

Don't employ utensils in eating or drinking unless they have been recently put in boiling water; the more recent the safer.

Don't eat or handle food or drink with unwashed hands, or receive it from the unwashed hands of others.

Don't use the hands for any purpose when soiled with cholera discharges; thoroughly cleanse them at once.

Personal cleanliness, and cleanliness of the living and sleeping rooms and their contents, and thorough ventilation, should be rigidly enforced. Foul water-closets, sinks, Croton faucets, cellars, etc., should be avoided, and when present should be referred to the Health Board at once, and remedied.

Precautionary Measures of Treatment.

The successful treatment and the prevention of the spread of this disease demand that its earliest manifestations be promptly recognized and treated ; therefore :

Don't doctor yourself for bowel complaint, but go to bed and send for the nearest physician at once. Send for your family physician ; send to a dispensary or hospital ; send to the Health Department ; send to the nearest police-station for medical aid.

Don't wait, but send at once.

If taken ill in the street, seek the nearest drug-store, dispensary, hospital or police-station, and demand prompt medical attention.

Don't permit vomit or diarrhœal discharges to come in contact with food, drink or clothing. These discharges should be received in proper vessels and kept covered until removed under competent directions. Pour boiling water on them, put a strong solution of carbolic acid in them (not ess than one part of acid to twenty of hot soapsuds or water).

Don't wear, handle or use any articles of clothing or furniture that are soiled with cholera discharges. Pour boiling water on them or put them into it, and scrub them with the carbolic acid solution mentioned above, and promptly request the Health Board to remove them.

Don't be frightened, but do be cautions, and avoid excesses and unnecessary exposures of every kind.

By order of the Board of Health.

CHARLES G. WILSON, President.

EMMONS CLARK, Secretary.

On the 31st day of August the steamship "Moravia," the first vessel infected with cholera, arrived at Quarantine, then followed in quick succession the "Normannia," "Ruggia," "Scandia," "Heligoland" and "Bothnia," all from Hamburg.

A careful investigation had been made looking to the increase temporarily of the facilities of the Health Department for the care of such cases of cholera as might develop. It was found that the "Floating Hospital" of St. John's Guild was the largest and best equipped barge in the harbor, and negotiations were at once opened with a view to the use of the same. The following correspondence fully explains itself :

OFFICE, No. 501 FIFTH AVENUE,
NEW YORK, September 1, 1892.

Hon. CHARLES G. WILSON, *President, Health Department, New York City :*

DEAR SIR—Inclosed please find copy of preamble and resolutions unanimously adopted at a special meeting of the Board of Trustees of St. John's Guild, held at 12 o'clock, noon, this day in the Directors' room of the Central National Bank, No. 320 Broadway :

Whereas, The Health Department is now taking needed precautions to prevent the entrance of cholera into the City of New York, and is also preparing to combat the disease in case it should become epidemic ; and

Whereas, The "Floating Hospital" of St. John's Guild is the only barge in New York harbor that is equipped with facilities for cooking and bathing, and with hospital appliances; and

Whereas, It is deemed desirable in the interests of public health that all possible steps to preserve New York from a visitation of cholera should be promptly taken; therefore be it

Resolved, That the "Floating Hospital" with all its equipments be and the same hereby is tendered to the Health Department of the City of New York for use in this emergency.

Resolved, That this resolution go into effect immediately.

Resolved, That the Secretary be and hereby is instructed to notify the Health Department accordingly; and

Resolved, That the "Floating Hospital" Committee be and it hereby is instructed to take immediate steps to transfer the "Floating Hospital" to the care of the Health Department.

In pursuance of the instructions from the Board of Trustees, contained in the concluding resolution, the "Floating Hospital" Committee has placed the details of the transfer in my hands, and I take pleasure in notifying you that I will be ready to deliver the "Floating Hospital" to your Department at 6 o'clock this P. M.

Respectfully, for the Board of Trustees of St. John's Guild,
(Signed) JOHN P. FAURE, Secretary.

The Board accepted the above offer in the following letter:

HEALTH DEPARTMENT, No. 301 MOTT STREET,
NEW YORK, September 1, 1892.

JOHN P. FAURE, Esq., *Secretary St. John's Guild:*

DEAR SIR—The Board of Health acknowledges the receipt of yours of this date, tendering the use of the "Floating Hospital" of St. John's Guild for the use of this Department as a hospital for cholera patients in case that disease should appear in this city. The Board desires to express its high appreciation of the public-spirited and humane action of the Board of Trustees of St. John's Guild in furnishing to this Department such ample and admirable hospital accommodations for those who may be afflicted.

It would accommodate this Board if you would deliver the "Floating Hospital" at the foot of East Sixteenth street at 9 o'clock A. M. to-morrow (Friday), September 2.

Very respectfully,
(Signed) CHARLES G. WILSON, President.
EMMONS CLARK, Secretary.

The importance of this action of the Board of Trustees of St. John's Guild will be readily appreciated when it is understood that by means of the "Floating Hospital" we were placed in a position, if it became necessary, to handle with perfect ease at least 150 cases. The Reception Hospital at the foot of East Sixteenth street was also placed in condition to be used for cholera patients, and the Willard Parker, which was empty and had been undergoing repairs, was to be used as a place for "suspects."

The first case of cholera appeared in the City of New York on the 5th day of September, the person so affected dying on the 7th. Others developed in succession until the 29th day of September, up to which time ten cases in all occurred, as follows :

Table showing Data regarding the Cases of Epidemic Cholera which Occurred in New York in 1892.

No.	Date of Illness.	Reported to Health Department.	Died.	Sex.	Occupation.	Remarks.
1	Sept. 5, 1892	Sept. 6, 1892	Sept. 7, 1892	Male.....	Laborer	
2	" 3 or 6, "	" 10, "	" 10, "	"	Laborer in tripe factory.....	
3	" 10, "	" 11, "	" 11, "	Female..	.....	Wife of case No. 2.
4	" 10, "	" 11, "	" 11, "	" ..	Infant.....	Child of case No. 5.
5	" 12, "	.....	....	Male.....	Laborer in slaughter-house.....	Recovered. Not examined biologically.
6	" 6, "	.....	.....	"	Butcher.....	Recovered. Not examined biologically.
7	" 12, "	Sept. 13, 1892	Sept. 13, 1892	Female..	.....	Wife of case No. 6.
8	" 18, "	" 18, "	" 18, "	Male.....	Fireman.....	"State of Nevada."
9	" 18, "	" 19, "	" 23, "	"	Coachman.....	Died in Reception Hospital.
10	" 28, "	" 29, "	" 29, "	"	Marketman	

These cases were in different sections of the city, no secondary case occurring in any one locality. The result of the work of the Department cannot be better expressed than in the words of an eminent writer :

"It was thought that cholera having developed in this city would spread throughout the whole country ; but, on the contrary, the result shows that it was confined to a few cases, and although they were widely apart, in different sections of the city, each one was confined practically to the room in which it occurred, showing that cholera can be stamped out by proper medical skill, isolation, disinfection and properly directed energy."

During the progress of the outbreak, the following additional circulars of instruction were issued :

Health Department,
New York, September, 1892.

To the Superintendents of Ferries, Depots, Manufactories, Excursion Boats, Steamers, Wharves, Piers, Docks, etc. :

The appearance of cholera in this city requires that a temporary place for isolation and detention should be provided in ferry-houses, railroad depots, factories, excursion boats, steamers, wharves, piers, docks, etc., for such as may be taken suddenly ill. This room should be within easy reach and have a water-tight floor. Persons suffering from vomiting or purging should be placed in the room at once, a physician's services secured and the Health Board immediately notified. In the room should be placed two large wooden vessels, each provided with a wooden faucet, for the reception of disinfecting fluids. In one is placed a solution of corrosive sublimate,

composed of 60 grains of pulverized corrosive sublimate and 60 grains of chloride of ammonia dissolved in 1 gallon of water; in the other a solution of carbolic acid, composed of 6 ounces of carbolic acid dissolved in 1 gallon of hot water. These fluids being poisonous, should be so labeled and made secure. Floors, benches, textile fabrics, articles and surfaces soiled with cholera discharges should be flooded with the disinfectants, and, after being left for a few minutes, the discharges may be wiped up, and all clothes and other textile fabrics burned or placed in disinfecting solution. The carbolic acid is preferable for disinfection of cholera discharges. The corrosive sublimate solution is efficient for disinfection of surfaces by sprinkling, scrubbing, etc.

Water-closets and urinals should be kept constantly and thoroughly cleansed and disinfected.

The floors of ferry-boats, ferry-houses, railroad cars, depots, etc., should be scrubbed daily after thorough disinfection. They should not be swept until after thorough sprinkling with a disinfecting solution; and the sweepings should be disinfected again before being thrown into the sewer or river. They should be burned when possible.

The above regulations are issued for the government of railroads, ferries, factories, etc., in this city only, as regulations will doubtless be issued upon this subject by the State Board of Health and by the Health Boards of other cities.

By order of the Board of Health.

CHARLES G. WILSON, President.

EMMONS CLARK, Secretary.

HEALTH DEPARTMENT, No. 301 MOTT STREET,
NEW YORK, September 17, 1892.

To Physicians, Nurses, etc.:

At a meeting of the Board of Health of the Health Department of the City of New York, held on the 16th instant, the following preamble and resolution were adopted:

Whereas, The presence of cholera in this city and its relation to diarrhœal diseases makes it extremely important that all diarrhœal discharges be at once disinfected, as many cases of cholera take the form of mild diarrhœa, but the discharges in those cases are as dangerous as from the severer types of the disease; therefore

Resolved, That physicians and nurses are respectfully requested to see that this recommendation is promptly carried out, as in this way the great danger of spreading infection from unsuspected cases of cholera will be greatly lessened.

By order of the Board of Health.

CHARLES G. WILSON, President.

EMMONS CLARK, Secretary.

HEALTH DEPARTMENT,
NEW YORK, September 19, 1892.

PRECAUTIONARY DIRECTIONS FOR THE ATTENDANTS ON CHOLERA PATIENTS IN THE HEALTH DEPARTMENT.

No attendant should eat, drink or smoke in the presence of cholera patients, nor after attendance upon such patients should he handle any article whatever until after thorough disinfection

of his hands. Great care should be exercised that common articles of use, as lead pencils, thermometers, cups, saucers, medicine glasses, etc., should be thoroughly disinfected before being again employed. The introduction into the mouth of any substance whatever unless the hands have been first thoroughly washed, and the substance have had no contact with cholera patients, should be sedulously avoided. All attendants having unshaven faces should especially avoid handling the beard or moustache with unwashed hands. No person in charge of cholera patients is permitted to wear from the room to another place (unless it be an infected place) the footwear worn in attending on patients; moreover, none of the articles of dress worn for the protection from infection in attendance on cholera patients, namely, rubber boots, gossamer gowns, cap, etc., shall be worn or brought in contact with an unaffected person, thing or place. All persons visiting those ill of cholera shall be temporarily dressed in the same manner as those attending them, and shall be caused to observe the same directions on their withdrawal from the sick room.

CHARLES G. WILSON, President.

EMMONS CLARK, Secretary.

As a matter of interest, we have had collated from the records of the City Inspector and of the Health Department an account of the different epidemics of cholera from its first appearance in 1832 to and including its last appearance in 1892, which in itself forms a succinct history of the disease in the City of New York.

Deaths from Cholera, 1832–1892.

YEAR.	DEATHS FROM CHOLERA.	YEAR.	DEATHS FROM CHOLERA.	YEAR.	DEATHS FROM CHOLERA.	YEAR.	DEATHS FROM CHOLERA.
1832*	3,513	1848	2	1863	9	1878	....
1833	....	1849	5,071	1864	12	1879	....
1834	971	1850	57	1865	10	1880	....
1835	....	1851	....	1866	1,137	1881	....
1836	....	1852	374	1867	82	1882	....
1837	....	1853	33	1868	9	1883	....
1838	....	1854	2,509	1869	6	1884	....
1839	2	1855	19	1870	1	1885	....
1840	1	1856	8	1871	6	1886	....
1841	....	1857	11	1872	4	1887	....
1842	....	1858	5	1873	1	1888	....
1843	....	1859	9	1874	2	1889	....
1844	15	1860	18	1875	....	1890	....
1845	6	1861	12	1876	....	1891	....
1846	....	1862	9	1877	2	1892	9
1847	....						

* First year in which Asiatic cholera appears in the records of the Health Department.

Vide—In the light of our present knowledge, it seems probable that the deaths reported from cholera in the years intervening between the great epidemics were not cases of true Asiatic cholera, but of sporadic cholera, or cholera nostras.

The following details of the various epidemics are taken from the official reports of the time:

1832.

The report for this year is of the most meagre description, and a statement of deaths by months is all that could be got out of it.

Deaths from Cholera by Months in 1832.

July	1,797
August	1,272
September	451
October	63
Total	3,513

1834.

The same may be said of 1834. The deaths by months alone could be obtained.

Deaths from Cholera by Months in 1834.

August	421
September	507
October	43
Total	971

1848.

Packet ship "New York," from Havre, November 9, arrived in New York harbor December 2, with 331 steerage and 21 cabin passengers, and a crew of 33. All were well until November 25, when a German, 29 years old, in robust health, was attacked with vomiting, purging and cramps, and died on the third day. This case was followed by 6 others.

The ship came to anchor in Quarantine on Friday night, and from that time until Sunday noon, when the passengers were landed, 12 new cases occurred.

The first case in the city was a man who had been in the Quarantine Hospital, and was discharged cured on Monday, December 4. He came to the city the same day and put up at a boarding-house at the corner of Greenwich and Cedar streets. On Tuesday he was attacked with cholera, sent back to Quarantine, and died on Wednesday.

The second case was in the same house on Monday, December 11. A German, 45 years old, temporary lodger for the night, had eaten nothing in the house, had not been at Quarantine nor

seen the other man who died, occupied a room on the floor below the one in which the first case was lodged. Died the next morning. Building was cleaned and renovated, and no other case occurred there.

The third case was on December 20, at the "German Hotel," No. 161 Washington street, a German, in robust health, 28 years of age, who had been living in Pennsylvania and had been in the city only a week, was to have sailed for Havre on that very day. He was a man in independent circumstances and cleanly in person. Was attacked at 3 A. M. and died at 4 P. M. House was thoroughly disinfected and fumigated.

The disinfecting methods used in these cases and during the following summer appear to have been whitewashing and a liberal sprinkling of chloride of lime.

No more cases occurred until the following May, nor do the annual reports mention any further importation of the disease.

1849.

The first case was reported on May 15, from No. 20 Orange (now Baxter) street, and the disease rapidly extended throughout the city.

In fighting the disease, great stress was laid upon cleanliness, frequent whitewashing and the use of chloride of lime. The slaughter-houses were rigidly and frequently inspected, and all the bone-boiling and horse-skinning establishments were closed.

The disease appeared first in the Sixth Ward and latest in the Sixteenth, which at that time included that part of the city west of Sixth avenue, between Fourteenth and Fortieth streets, and the wards suffered most severely in the following order: Sixth, Sixteenth, Fourth, First, Eleventh, Seventh and Thirteenth, the Second, Third and Fifteenth Wards being almost exempt.

The nativity of those who died was as follows:

United States	1,627	Switzerland	5
Ireland	2,219	Italy	4
Germany	583	Prussia	3
England	247	Portugal	3
Scotland	69	Russia	3
British America	39	Norway	3
France	23	Belgium	2
Wales	13	Poland	2
West Indies	9	Spain	2
Sweden	8	Africa	1
Denmark	6	Unknown	194
Holland	6	Total	5,071

Deaths from Cholera in 1849, *by Age, Sex and Month.*

Month.	Total.	Male.	Female.	Under 1 Year.	1 to 2.	2 to 5.	5 to 10.	10 to 20.	20 to 30.
May	35	16	19	....	....	....	....	....	2
June	775	441	334	8	7	29	39	52	151
July	2,625	1,264	1,361	60	52	137	141	163	518
August	1,452	748	704	15	36	92	101	117	289
September	161	81	80	2	3	6	13	9	25
October	16	6	10	....	....	1	1	2	7
November	7	6	1	....	....	....	....	1	1
December	....	....	....	....	....	....	....	....	....
Total	5,071	2,562	2,509	85	98	265	295	349	994

Month.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 to 90.	90 to 100.	Unknown.
May	8	14	5	3	....	....	....	3
June	195	160	55	23	10	5	....	41
July	626	427	236	128	58	13	1	60
August	301	235	125	89	31	7	2	12
September	41	37	12	8	3	....	....	1
October	3	1	1	....	....	....	....	....
November	2	....	1	2	....	....	....	....
December	....	....	....	....	....	....	....	....
Total	1,176	874	435	253	102	25	3	117

1850.

The 57 deaths in 1850 are said in the annual report to have been deaths of newly-arrived immigrants only.

1852.

The 374 deaths reported in 1852 are stated in the annual report to have been undoubtedly cases of cholera nostras, and not of Asiatic cholera.

1853.

There were 33 deaths reported as due to cholera in 1853, distributed as follows:

June	4	October	1
July	9	November	3
August	2	December	12
September	2	Total	33

1854.

In this year occurred the third severe epidemic in New York.

The following table shows the deaths according to age, sex, race, and the month of decease:

Month.	Total.	Total by Sex.		Colored.		Under 1 Year.		1 to 2.		2 to 5.		5 to 10.		10 to 15.		15 to 20.	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
January	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
February	1	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
March	....	....	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
April	....	...	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
May	11	8	3	..	..	..	..	..	..	..	..	..	..	..	..	..	1
June	209	102	107	2	1	..	..	1	3	3	7	8	3	4	5	4	6
July	825	455	370	5	10	9	7	2	5	21	5	20	18	17	6	19	14
August	918	480	438	2	8	5	8	4	7	20	14	34	23	13	6	17	14
September	402	222	180	4	2	..	3	3	2	23	15	10	13	5	5	8	11
October	122	73	49	1	1	..	..	..	..	6	4	4	6	1	1	3	2
November	15	7	8	..	1	..	..	..	..	..	..	1	..	..	..	..	..
December	4	3	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	2,509	1,352	1,157	14	23	14	18	10	17	73	45	77	63	40	23	51	48

Month.	20 to 25.		25 to 30.		30 to 40.		40 to 50.		50 to 60.		60 to 70.		70 to 80.		80 to 90.		90 and Over.		Unknown.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
January	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
February	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
March	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
April	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
May	2	..	1	..	1	..	3	1	..	1	1	..	..	..	..	..	..	..	..	..
June	11	11	10	16	23	31	17	14	12	7	6	1	..	..	1	1	..	1	2	1
July	37	46	57	58	111	105	81	51	46	27	16	15	9	4	1	3	..	..	9	6
August	37	46	66	65	113	113	71	72	52	33	30	22	9	8	3	2	..	1	6	4
September	20	15	23	26	53	37	40	27	22	16	10	9	4	1	..	..	1	..	..	..
October	8	4	13	3	12	9	10	5	7	3	8	8	1	3	..	1	..	..	..	..
November	..	1	1	1	2	2	3	2	..	1	..	..	..	1	..	..	..	..	..	..
December	1	..	..	..	1	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..
Total	116	124	171	169	316	297	226	172	141	89	71	55	23	17	5	7	1	2	17	11

Of these 2,509 deaths, 986 males and 917 females were foreign-born and 606 were native-born.

The following table shows the deaths in 1854 by wards:

Ward.	Number of Deaths.		Remarks.	Population, 1855.
	Cholera.	Total.		
First	76	927		13,486
Second	11	117		3,249
Third	14	241		7,909
Fourth	71	1,143		22,895
Fifth	373	1,488	Includes City Hospital and Franklin Street Temporary Hospital, in which 320 deaths from cholera occurred out of a total of 694	21,617
Sixth	157	1,538	1 in City Prison out of a total of 26	25,562
Seventh	73	1,264		34,422
Eighth	94	1,155		34,052
Ninth	51	1,111		39,982
Tenth	27	843		26,378
Eleventh	108	1,859		52,979
Twelfth	240	2,355	215 in Randall's Island and Ward's Island Hospitals out of a total of 1,961	17,656
Thirteenth	69	1,178		26,597
Fourteenth	220	1,128	149 in Mott Street Temporary Hospital and 1 in Roman Catholic Orphan Asylum in a total of 164	24,754
Fifteenth	27	527		24,046
Sixteenth	97	1,495		39,823
Seventeenth	89	2,480	2 in St. Vincent's Hospital in a total of 114	59,548
Eighteenth	74	1,601		39,415
Nineteenth	203	1,397	113 in Blackwell's Island and Colored Home Hospitals in a total of 753	17,866
Twentieth	145	2,085		47,055
Twenty-first	104	1,407		27,914
Twenty-second	186	1,229		22,605
Total	2,509	28,568		629,810

1866.

The steamship "Atlanta," from Havre, arrived in November, 1865, with cholera on board, but no cases occurred in the city until the following May. The "Virginia" arrived in April, having lost during the passage 31 persons of cholera out of 1,138 who left Liverpool by her; 66 more died at Quarantine. The "England" arrived April 20, having lost 250 of her passengers and crew on the voyage.

The first death in the city occurred in an "old rookery" in an open lot on Ninety-third street, east of Third avenue, on May 1, at 10 A. M., after an illness of 20 hours. Its origin was never established. The second case was at No. 115 Mulberry street on May 2.

On May 29 and 30 the steamships "Peruvian" and "Union" reached Quarantine from Liverpool with nearly 1,200 steerage passengers, having lost 50 from cholera during the voyage; 104 of the survivors died within a few days at Quarantine.

The third case in the city occurred on June 3 at No. 303 Broome street.

The following table gives the number of deaths according to age and sex:

Age.	Male.	Female.	Both Sexes.	Age.	Male.	Female.	Both Sexes.
Under 1	8	2	10	45	46	44	90
1	4	5	9	50	51	41	92
2	8	5	13	55	33	39	72
3	5	6	11	60	25	26	51
4	4	6	10	65	17	13	30
Total under 5	29	24	53	70	1	7	8
5	22	30	52	75	3	6	9
10	24	14	38	80	1	2	3
15	13	29	42	85	..	..	..
20	34	81	115	90	..	..	..
25	54	85	139	95	..	..	..
30	44	85	129	100	..	1	1
35	43	64	107	Total	488	649	1,137
40	48	58	106				

The distribution of deaths by wards was as follows:

Ward.	Deaths.	Ward.	Deaths.	Ward.	Deaths.
First	37	Ninth	14	Seventeenth	24
Second	2	Tenth	14	Eighteenth	11
Third	2	Eleventh	13	Nineteenth	25
Fourth	38	Twelfth	39	Twentieth	35
Fifth	18	Thirteenth	10	Twenty-first	8
Sixth	125	Fourteenth	37	Twenty-second	76
Seventh	22	Fifteenth	4	Total	591
Eighth	21	Sixteenth	15		

These were the deaths that occurred in the city itself. But the epidemic raged fiercely in the various institutions on the islands, causing deaths as follows:

Ward's Island 172
Workhouse 151
Almshouse 95

Lunatic Asylum	74
Charity Hospital	41
Penitentiary	6
Randall's Island	20
	559

These deaths, with the 591 reported as occurring in the city itself, make a total of 1,150, an excess of 13 over the number of deaths as given in the table of ages. This discrepancy cannot be done away with. The Health Department was newly organized (on March 5, 1866), and all the records during the epidemic were more or less confused, the energy of the Board of Health being directed more in the executive channel than toward statistical work. Afterwards, when the summer work was over, the statistics of deaths were revised and corrected (for duplicates, etc.) so far as the age table was concerned, but the other tables were left untouched.

A similar discrepancy will be noticed (of 29) in the following table of deaths by weeks :

Week Ending—	Deaths from Cholera.	Week Ending—	Deaths from Cholera.	Week Ending—	Deaths from Cholera.	Week Ending—	Deaths from Cholera.
June 2	..	July 21	11	Sept. 8	50	Oct. 27	3
" 9	2	" 28	48	" 15	67	Nov. 3	5
" 16	6	Aug. 4	239	" 22	54	" 10	..
" 23	4	" 11	258	" 29	38	" 17	1
" 30	1	" 18	145	Oct. 6	36	" 24	1
July 7	3	" 25	114	" 13	12	Total	1,164
" 14	11	Sept. 1	50	" 20	5		

The 2 deaths in May make a total of 1,166. Apparently 29 of these were afterwards decided not to be Asiatic cholera, the table being made up from the current daily reports before investigation.

During this epidemic, for the purposes of disinfection, the following means were used : Quicklime, chloride of lime, whitewash, the sulphates and chlorides of iron and zinc, carbolic acid and the boiling of clothing.

1867.

Eighty-two deaths were attributed to the cholera in this year, but many were doubtful cases and the disease was nowhere epidemic.

Since this year New York has been free from the disease, until 1892, although in many of the intervening years a few cases have been reported. These were, in all probability, all cases of cholera nostras, or sporadic cholera. The two cases reported in 1874, the year following the epidemic in the Mississippi valley, were looked up and found to be, without doubt, cholera nostras.

AMBULANCE CORPS.

Connected with the Bureau of Contagious Diseases is an Ambulance Corps composed of four men, whose duty it is, when ordered by the Medical Inspectors, to remove patients to the hospitals,

the premises immediately thereafter being disinfected by the Disinfecting Corps. For the service of this corps there were at the commencement of the year three ambulances, which were increased in September by the purchase of six additional ones, placing the Department in a position to meet almost any emergency with which it may be confronted.

The following is a summary of the work performed by this Corps during the year:

Number of patients removed to hospital on account of contagious diseases	1,459
Number of bodies (dead from contagious diseases) removed to Reception Hospital, for interment at Hart's Island	49

VETERINARIAN.

There is in connection with the work of the Department a Veterinary Surgeon, whose duty it is to examine all cattle (used for the purpose of cultivating vaccine) as to their healthy condition; also to examine all cattle, horses and other animals in the city, suspected of, or liable to disease. The result of his work during the year is as follows:

Number of cattle examined	32,748
Number of cases of contagious diseases visited	922
Number of glandrous horses destroyed	227
Number of post-mortems on cattle	159

DISINFECTION.

The necessity of the thorough disinfection of all infected houses, rooms, furniture and articles of bedding and clothing is imperative, to prevent the spread of contagious diseases. During the first eight months of the year the same system and methods of disinfection which have been in operation for a number of years were carried on under the direction and charge of the Chief Inspector of Contagious Diseases.

On the 9th day of September, 1892, a new division was created, entitled the Division of Pathology, Bacteriology and Disinfection. Nine Assistant Inspectors (Medical) and sixteen Foremen and Laborers were assigned to this division, which was placed under the charge of Dr. Herman L. Biggs, as Chief Inspector.

Improvements were made in the disinfecting plant at East Sixteenth street, which, it is believed, make it at this time the most effective one of its kind in this country.

In addition to the work of disinfection the labor of this division was largely devoted to experiments as to the efficacy of various disinfectants and methods of disinfection and biological work.

During the outbreak of cholera in September each suspicious case was subjected to a bacteriological examination to determine as to the presence of the "comma bacillus" of cholera Asiatica. Twenty-four suspected cases in all were examined, eleven of which (including the New Brunswick case) proved to be epidemic cholera.

For the purpose of the work of disinfection the city is divided into eight districts, to each of which is assigned a Disinfector, whose duty it is to visit all houses in which contagious diseases have been reported, when possible, fumigate and disinfect the premises and its contents and give verbal and printed instructions for further disinfection when necessary. To two of the Disinfectors is given the duty of removing all portable articles from the infected premises (in vehicles belonging to the

Department and used for that purpose) to the station near the foot of East Sixteenth street, where they are rendered innocuous and then returned to the owners.

The results of the measures employed by the Board in connection with the disinfection of premises, articles of clothing, furniture, etc., have been such as to convince us that the work of this division has been most valuable in protecting the public health by preventing the spread of contagious disease.

There is also a crematory in connection with the disinfecting station, in which infected articles can be destroyed if necessary.

During the past year the following amount of work was performed by this corps:

Number of visits to infected houses for purposes of disinfection	29,143
Number of infected rooms fumigated after occurrence in them of contagious disease	30,595
Number of infected and contiguous rooms for which disinfectants were distributed by disinfectors	79,636
Number of pieces of infected goods removed by Disinfectors	46,866
Number of pieces of infected goods brought to disinfecting station by owners	503
Number of pieces of infected goods returned to owners after disinfection	29,344
Number of pieces of goods destroyed by cremation	17,931
Number on hand to be returned	94

HOSPITALS.

The hospitals under the control of this Department (three in number) are devoted exclusively to the care and treatment of those suffering with contagious diseases. The Willard Parker Hospital and the Reception Hospital are situated on East Sixteenth street, between Avenue C and the East river, distant more than one thousand feet from inhabited dwellings or tenement-houses; the third, the Riverside Hospital, is situated at North Brother Island, in the East river, opposite the foot of East One Hundred and Thirty-eighth street, and distant about one-half mile from the main land. These are the only hospitals in the City of New York (public or private) which are devoted exclusively to the care of those suffering from contagious diseases. Burdette, in his exhaustive work on hospitals and asylums of the world, says, "The origin of hospitals for the special purpose of isolating persons suffering from contagious diseases may be traced back to very early times; the Mosaic laws for the separation of leprosy being the earliest recorded examples of the recognition of the value of isolation. To Dr. Willett belongs the distinction of having been the first, in 1800, to point out the enormous rate of mortality from fever among the poor in London, and to urge the necessity, not only for improved sanitary conditions of life, but for separating the infectious sick from the healthy. The great value of a permanent isolation hospital is that it provides the means of isolating at once the earliest case of disease, and of thus preventing the epidemic, instead of leaving it to be battled with when it has got full sway."

In the Willard Parker Hospital, which has an ordinary capacity of seventy beds, cases of scarlatina and diphtheria of childhood are treated. The wards of this hospital (six in number) comprise six well-ventilated and spacious rooms, three being located on the second floor, in which are received and treated scarlatina cases, and three on the fourth floor, in which are received and treated diphtheria cases. The wards of both floors communicate through a common vestibule and

hallway, respectively, and are similar in size and arrangement, and are designated as the East, West and South wards. The walls are constructed of brick covered with paint of a yellowish white tint, which presents a very smooth and glossy surface, exceedingly bright and cheerful. The ceilings are plastered and have the same coloring and finish. The floors are of polished hard wood, and are washed daily with 1 to 1000 bichloride of mercury solution. The iron beds numbering 35, in the wards on each floor, are carbolized each morning. When patients occupy beds the sheets and spreads are changed daily, in other instances weekly. Very rigid discipline and isolation is maintained, and thorough disinfection is practiced, to prevent the occurrence of unusual complications from intercommunication of employees or otherwise. Patients are required to take a bath (1 to 1000 bichloride of mercury solution) upon their discharge, and also, if possible, when they come. All clothing of the patients is sent to be disinfected, and not returned to the wards until the patient is ready to be discharged. There are water-closets on both floors in distant rooms, and bath-rooms on each floor, the bath-tubs being of marble with porcelain lining.

The following table shows in detail the cases treated during the year, under 5 years of age, between 5 and 16, 16 and 21, and over 21 years of age, with the number of deaths of each class and rate of mortality of each class to the whole.

Willard Parker Hospital.

	Cases Treated.			Deaths.		
	Male.	Female.	Total Number of Cases.	Male.	Female.	Total Number of Deaths.
Scarlet fever	88	124	212	17	17	34
Diphtheria	123	188	311	38	41	79
Total	211	312	523	55	58	113

	Scarlet Fever.			Diphtheria.		
	Cases Treated.	Deaths.	Rate of Mortality.	Cases Treated.	Deaths.	Rate of Mortality.
Under 5 years	94	28	28.72	128	57	44.56
5 to 16 years	102	6	5.88	77	9	11.7
16 to 21 years	9	..	.....	53	6	11.32
Over 21 years	7	..	.....	53	7	13.4
Total	212	34	16.00	311	79	25.4

The Reception Hospital, as its name indicates, is used for the reception of all patients afflicted with contagious disease who are to be sent to Riverside Hospital, and also those of doubtful

diagnosis, and especially the latter, when public safety demands their removal from the place of their inception. This building is of frame, one story in height, and has six wards, each about 15 feet in width and 20 feet in depth, and is utterly inadequate for the wants of the City of New York. During the last three years the capacity of this hospital has been severely taxed, as will be more fully demonstrated by the following table:

Admissions.

Year.	Males.	Females.	Mothers Accompanying.	Total.	Deaths.
1890	311	261	96	668	5
1891	464	440	150	1,054	5
1892	844	647	305	1,736	17

An appropriation of $30,000 was made by the Board of Estimate and Apportionment in the latter part of 1891, and incorporated in the budget for 1892, with which to enable this Department to erect a new and more commodious and better equipped structure. During the past year additional ground area, under the control of the Department of Docks, by and with its consent, was transferred by the Commissioners of the Sinking Fund to the Health Department for its uses. Plans for the erection of a fire-proof reception hospital and boiler-house on a part of the ground were prepared and approved. It was found, upon opening the same to public competition, that the building would cost (not including ventilation and heating) the sum of $67,998, or $37,998 more than the amount provided in 1891. This additional amount was allowed in the final estimates, so that in the early part of 1893 the erection of the building will be commenced, and when completed it will, we think, be a model of its kind for the purpose of a reception (in transitu) hospital. The structure will consist of two hospital buildings, one fronting on the East river at the foot of East Sixteenth street, the other on East Sixteenth street, separated from the first by a driveway of ten feet. The buildings will be of brick and iron, and as nearly fire-proof as it is possible to construct them. In fact, wood will not be used in the construction except for the front and toilet room doors. The floors, ceiling and roof beams will be of iron filled in with solid arches of brick, the floors of cement and tiles, the doors, window frames and sashes of iron, and the interior of the wards lined throughout with glazed brick. The system of heating will be by both direct and indirect radiation, and the ventilation forced both in and out by means of a fan or blower. The building on the East river front will be 30 feet by 51 feet, and will consist of two wards, each 30 feet by 25½ feet, with 16-foot ceilings, and devoted to the reception in transitu of male and female small-pox. The building on Sixteenth street will consist of twelve wards, each about 15 feet by 25 feet, with 16-foot ceilings, and will be used for other kinds of contagious diseases in transitu for Riverside Hospital and for observation.

The Riverside Hospital, situated at North Brother Island, is about six miles from East Sixteenth street and about half a mile from the foot of East One Hundred and Thirty-eighth street. This island is beautifully located for the purpose of isolation and treatment of all classes of contagious diseases. It has an area of about fourteen acres, is bright, cool, healthful and surrounded by objects of great interest. During the year, on account of the outbreak of typhus fever, it became necessary to increase the accommodations for patients, and six additional

pavilions were erected with a capacity of about 160 beds. The special form of hospitals in use at North Brother Island is the isolated pavilion plan, of which there are twelve, each pavilion being one story in height, varying in length from 73 to 100 feet, and in width from 21 feet to 25 feet, with ceilings varying in height from 12 feet to 18 feet, and containing in addition to wards for the sick, closets, baths, nurses' and linen rooms. There is also a large brick hospital, two stories in height, with four wards containing 6,520 square feet of floor space, with 102,320 cubic feet of air space. The following table shows clearly the description of each pavilion, with the number of square feet of floor space and cubic feet of air space:

Number of Pavilion.	Description.	Square Feet Floor Space in Wards.	Cubic Feet in Wards.
1	Two-story brick, four wards	6,520	102,320
2	One-story wood, eight rooms	642	9,952
3	One story, one ward	1,176	18,228
4	One story, two wards	966	11,490
5	One story, one ward	1,176	18,228
6	One story, one ward	1,176	18,228
7	One story, one ward	1,488	22,816
8	One story, two wards	2,000	36,000
9	One story, two wards	2,000	36,000
A	One story, one ward	1,045	11,936
B	One story, one ward	1,045	11,936
C	One story, one ward	1,045	11,936

There is also a residence for the physicians and nurses, an administration building, kitchen building, boiler and wash house, disinfecting plant, morgue, ice and coal house, barn and greenhouse. All of the buildings are lighted with gas and heated by steam supplied from a central plant, it being also used for laundry purposes. During the year a disinfecting plant was erected for the purpose of disinfecting by means of hot air all material that had become infected on the island.

The following table shows the variety of disease and the number of cases of each treated here during the past year, both male and female, adult and minor, the number of deaths, together with the mortality table of each disease during this period.

Riverside Hospital.

	Cases Treated.			Deaths.		
	Male.	Female.	Total.	Male.	Female.	Total.
Small-pox	215	136	351	44	21	65
Typhus fever	152	90	242	35	9	44
Scarlet fever	157	138	295	21	27	48

	Cases Treated.			Deaths.		
	Male.	Female.	Total.	Male.	Female.	Total.
Measles	325	287	612	52	47	99
Leprosy	2	....	2	1	....	1
Scarlet fever and measles	47	46	93	13	19	32
Scarlet fever and whooping-cough	....	1	1	....	....	....
Scarlet fever and chicken-pox	2	1	3	....	....	....
Diphtheria	9	4	13	....	1	1
Whooping-cough	1	....	1	....	....	....
Total	910	703	1,613	166	124	290

SUMMER CORPS.

Under the provisions of section 4, chapter 504 of the Laws of 1879, the Board of Estimate and Apportionment is required to appropriate each year the sum of ten thousand dollars, to be known as the "Tenement-house Fund," to be placed to the credit of the Health Department, and to be by it expended in the employment of a special corps of physicians, whose duty it shall be to visit every tenement-house, especially in the poorer and more crowded districts of the city, prescribe for the helpless sick, give needful advice, distribute rules for the care of infants, and cause to be corrected all unsanitary conditions. On the 28th day of June, 1892, fifty physicians were appointed for service (as in preceding years) during the months of July and August, and the city was divided into fifty districts, to each of which one physician was assigned for duty.

The following tabulated statement shows in detail the record of the work of this corps during the past summer:

Number of visits to tenement-houses	40,193
Number of visits to families	348,318
Number of sick treated	23,816
Number of minor nuisances abated by personal effort	7,917
Number of complaints of nuisances forwarded	270
Number of circulars for infants distributed	60,304
Number of tickets to the St. John's Guild excursions distributed	17,812
Prescriptions filled at Central Office	882

SANITARY INSPECTION.

The several sections of the Sanitary Code are enforced by general orders of the Board, or in extreme cases by peremptory orders of the Sanitary Superintendent, or by and through the medium of the Sanitary Police.

For the purpose of special sanitary inspection the city is divided into districts, one inspector being detailed for work in each district; his duty consisting in the investigation and making of reports and recommendations to the Board upon citizens' complaints referred to him, and of the

frequent inspection of and report upon special places which are likely to become dangerous to life and detrimental to health.

Each inspector is required to be thoroughly familiar with his district, and when time affords, to make a general inspection of his district; also forwarding complaints of any sanitary defects he may discover. He is also required to re-inspect premises upon which orders have been issued to see that the same have been complied with.

A large amount of special work was performed by the Inspectors during the past year, all of which will be found in detail in the report of the Sanitary Superintendent. The number of inspections and re-inspections made by the Sanitary Inspectors was 62,943, as against 59,515 in 1891, resulting in 16,721 complaints and orders for the abatement of nuisances as against 13,222 in 1891.

The following premises and localities were inspected and reported upon:

Tenement-houses	19 560	Public highways	138
Lodging-houses	138	Receiving-basins of public sewers	131
Private dwellings	2,905	Dumps and dumping grounds	6
Other dwellings	1,801	Docks and piers	14
Public buildings	138	Public parks	115
Other buildings	891	Slaughter-houses	336
Dangerous buildings	2	Water-courses	8
Offensive trades buildings	32	Cemeteries	1
Manufactories and workshops	772	Gas-mains	7
Stores and warerooms	444	Canals	3
Stables	1,319	Croton-water mains	2
Sunken and vacant lots	380		

The subjects of the orders issued on the above inspections are as follows:

Air shafts cleaned, disinfected, graded, paved, connected with sewer.

Alleys cleaned, disinfected, graded, paved, connected with street gutter or sewer.

Apartments cleaned, disinfected or ventilated.

Areas connected with sewer, cleaned, disinfected, pavements of graded and repaired.

Balusters of stairs repaired.

Basements cleaned and disinfected.

Business of lard-rendering, slaughtering, gut-cleaning, fat-rendering, storing bones, manufacturing fertilizers, smoking sausages, or storing rags discontinued.

Buildings cleaned or inclosed.

Ceilings cleaned, whitewashed or repaired.

Cellars cleaned, made water-tight, cemented, connected with sewer, ceilings plastered, doors repaired.

Cellars vacated as places of living or sleeping.

Cesspools disinfected, emptied, cleaned, filled, constructed, repaired or covered.

Chimneys repaired, extended, cleaned or obstructions removed.

Cisterns disinfected, emptied, cleaned or covered or provided.

Clothes poles reset.

Coops cleaned, disinfected or removed.

Cows removed.

Dogs removed.

Drains cleaned, constructed, covered, repaired, removed, obstructions in removed, or connected with sewer.

Excavations cleaned, repaired, relaid, graded, or connected with sewer.

Fences repaired or constructed.

Fire-escapes cleaned or obstructions removed.

Fixtures trapped and waste-pipes therefrom connected on outlet side of water-closet traps.

Flashings provided over woodwork of sinks.

Floors cleaned, repaired, relaid, graded, cemented or connected with sewer.

Fowls removed.

Gas mains and pipes repaired, and gas provided in dark halls and rooms.

Garbage and ash receptacles provided, removed, cleaned and disinfected.

Gutters (house or street) provided, repaired, cleaned, disinfected, obstructions in removed, connected with street sewer, street gutter or cesspool.

Halls cleaned and filthy or defective floor coverings removed.

House-drains provided with running traps and fresh air inlets.

Hydrants repaired, constructed, removed.

Housekeepers provided for tenements.

Ice-boxes connected with properly trapped, water supplied, open sinks.

Joints closed or calked with lead.

Leaders repaired, provided, extended, adjusted, connected with sewer, street gutter or privy vault.

Lodging-houses discontinued.

Lots (vacant) cleaned, disinfected, inclosed, filled, graded, connected with sewer or street gutters.

Manure vaults, boxes or receptacles disinfected, emptied, cleaned, covered, filled, constructed or lined.

Manholes covered and repaired and removed.

Offensive trades and business discontinued or removed.

Pigeons removed.

Pipe (soil, supply, vent, waste, sewer or iron) provided.

Pipe (soil, waste or supply) repaired, trapped, removed, extended, graded, cemented, ventilated or repaired, and openings closed and obstructions removed.

Privy vaults disinfected, emptied, cleaned, ventilated, lined with brick, repaired, cemented, constructed, filled or removed.

Privy-houses cleaned, disinfected, repaired, constructed, removed, adjusted to vaults, or seats of provided with cover.

Pumps provided or repaired.

Rabbits removed.

Railings provided or repaired.

Roofs repaired or cleaned, and roof bulkheads repaired.

Roof-tanks provided, cleaned or covered.

School sinks provided, cleaned or repaired.

Sewer-pipes provided, repaired, obstructions in removed, trapped or openings inclosed.

Sinks provided, repaired, cleaned, removed, flushed, connected with street sewer or street gutters.

Sidewalks cleaned, repaired, graded, flagged or obstructions in removed.

Skylights repaired and provided.

Slaughter-houses cleaned, repaired or connected with sewer.

Smoke-pipes extended or repaired.

Soil-pipes discontinued as rain leaders, spaces cleaned, disinfected, graded, cemented, filled or connected with sewer.

Stables cleaned, removed, repaired, or connected with street sewer.

Stagnant water removed.

Stairways cleaned or repaired.

Trees removed.

Urinals cleaned, disinfected, repaired, flushed, connected with sewer, removed or floor covered with zinc.

Walls cleaned, whitewashed or repaired.

Wash-roofs repaired.

Wash-trays trapped, provided.

Water-closets repaired, cleaned, disinfected, flushed, constructed, ventilated or connected with street sewer.

Water-closet pans adjusted to preserve water seal, bowls burned out and re-tarred, cisterns provided, window sashes repaired and glazed.

Yards cleaned, disinfected, filled, graded, paved, grade of pavements repaired, relaid in cement, or connected with street sewer.

TENEMENT-HOUSE INSPECTION.

During the year one of the most important subjects which has engaged the attention of the Board has been the inspection of the tenement-houses of this city, and when it is understood that more than two-thirds of the people live in this class of houses it will not be surprising that the field of sanitary work is almost unlimited in extent, and should yield good results.

A tenement-house, under the statute, includes every building, or portion thereof, which is rented, leased, let or hired out to be occupied as a house or residence of three or more families living independently, and doing their cooking upon the premises, or by more than two families upon any floor so living and cooking, but having a common right in the halls, stairways, yards, water-closets or some of them.

Under the provisions of chapters 84 and 288 of the Laws of 1887, it became the duty of the Board of Health to inspect semi-annually all of this class of houses, and for the purpose of enforcing the provisions of these acts and the several sections of the Sanitary Code relating thereto, the Board of Police have detailed to the service of the Board of Health one Sergeant, one Roundsman,

and forty-three Policemen (men of long experience on the police force of this city, who are known as the Sanitary Company of Police.

For the purpose of this inspection the city is divided into thirty-one districts, and a Sanitary Policeman assigned to make an inspection of each of the tenement-houses within his district at least twice in each year, the first inspection commencing in the early part of January and the second in August. Each officer is provided with a memorandum book in which to enter the street and number of each house, date of inspection, and whether or not any cause for complaint was found. He is also instructed to secure by personal direction the abatement of all minor nuisances he may discover. Upon the event of failing to do so he is to make a written complaint of the same, which is forwarded to the Board for an order. In their inspection they are instructed to ascertain the following facts in connection with each house:

Location.

Number of families.	Housekeeper on premises.
Number of occupants.	Owner on premises.
Privy accommodations—number of sittings.	

Cellars, if Occupied for Dwelling Purposes.

Whether the floor is water-tight.	Whether the ceiling is plastered.

Yards.

Whether properly graded.	Whether sewer connected.

Front Areas.

Whether graded.	Sanitary condition.
Whether sewer connected.	

Waste Pipes.

Whether joints are connected with cement or lead.	Whether trapped.
	Whether ventilated two feet above the roof.

Soil Pipes.

Whether the joints are connected with cement or lead.	Whether trapped.

General Inspection.

Cellars.	Leaders.
Stairs and balusters throughout the house.	Eaves-gutter.
Walls and ceilings of halls and rooms throughout the house.	Chimneys.
	Fire-escapes.
Floors of rooms and halls throughout the house.	Water-closets, whether trapped and trap ventilated.
Slop-sinks, whether trapped and ventilated.	Privy-vaults.
Wash-basins, whether trapped and trap ventilated.	School sinks.
	Privy houses.
Bath-tubs, whether trapped and trap ventilated.	Cesspools.
	Urinals, whether properly flushed.
Croton supply pipes.	Clothes-poles.
Roof.	Fences.
Wash-roof.	Hydrants in yard.
Skylights.	Air-shafts.

Ash Receptacles.

Whether sufficient. | Whether kept within stoop-line.
In sanitary condition.

The total number of inspections of this class of houses during the year was 211,778, resulting in the forwarding of 13,806 complaints upon which orders were issued.

This constant and almost daily inspection and the enforcing of orders to remedy defects found to exist as to plumbing, drainage, cleanliness, ventilation, etc., have resulted in a material improvement in the sanitary condition of this class of houses.

The semi-annual inspection made in the latter part of 1892, pursuant to the Tenement-house Act, developed the fact that there were in this city--

Front houses	37,326
Rear houses	2,261
In all	39,587

Located as follows:

Ward.	Number of Front Houses.	Number of Rear Houses.	Total.
First	188	16	204
Second	6	....	6
Third	37	1	38
Fourth	336	86	422
Fifth	278	8	286
Sixth	385	131	516
Seventh	1,351	87	1,438
Eighth	892	88	980
Ninth	1,378	105	1,483
Tenth	1,045	161	1,206
Eleventh	1,755	249	2,004
Twelfth	6,292	17	6,309
Thirteenth	1,144	144	1,288
Fourteenth	446	139	585
Fifteenth	659	58	717
Sixteenth	1,374	94	1,468
Seventeenth	2,537	328	2,865
Eighteenth	1,287	52	1,339
Nineteenth	6,936	68	7,004
Twentieth	2,522	287	2,809
Twenty-first	1,340	36	1,376
Twenty-second	3,460	105	3,565
Twenty-third	1,348	1	1,349
Twenty-fourth	330	....	330
Total	37,326	2,261	39,587

—as against 34,967 front houses and 2,391 rear houses in 1891, showing an increase during the year of 2,359 new tenement-houses and a decrease of 130 rear houses. The erection each year of a large number of improved tenement-houses, in accordance with the provisions of the Tenement-house Act as to light and ventilation, plumbing and drainage, the decrease of rear houses by the demolition of the same, and the constant and careful house-to-house inspection has resulted in improving the condition of that part of the population who reside in this class of houses.

During the year the Board found it necessary to issue orders, in accordance with the provisions of section 659 of the New York Consolidation Act, for the vacation of a number of houses condemned as unfit for human habitation by reason of their unsanitary condition and because of failure on the part of the owners thereof to obey orders of the Board issued for the purpose of remedying defects.

In a majority of cases, previous to vacating, the owners complied with the orders of the Board and placed the premises in proper sanitary condition.

In addition to the duty of house-to-house inspection the Sanitary Police are required to make night inspections of tenement-houses to prevent overcrowding, which is regarded by the Board as one of the most difficult subjects with which it has to contend. Under the rules established by the Board of Health the question of overcrowding has special reference to and should be understood to be, such overcrowding as is dangerous or prejudicial to the health of the occupants.

An eminent writer says "that in large masses of people as the population of cities and large towns, the rules of sanitary science as regards them appear at first sight sufficiently simple: that they should have pure air, pure water to drink, and pure, unadulterated food attainable in sufficient quantities by purchase. This is absolutely all that sanitary science requires, as far as the masses are concerned."

As the purity of air in sleeping rooms depends, to some extent, on the proportion of their cubic capacity to the number of inmates, a rule has been established by the Board fixing 400 cubic feet for each adult, or 200 cubic feet for each child, as the minimum air space allowed. Memorandum is made by the inspector of the number of persons found in each apartment at the time of inspection and measurements taken the following day to determine whether the rule established by the Board has been violated. The experience gained during the past three or four years shows that the overcrowding in tenement-houses is confined chiefly to parts of the Fourth, Sixth, Seventh and Tenth Wards, and is caused mainly by the poorer families in the more densely populated districts attempting to add to their income by accommodating boarders or lodgers. In reducing the number of occupants in an apartment it has not been the policy of the Board to divide families occupying one apartment by separating parents from their children.

40,552 night inspections were made during the year, resulting in the removal of 2,127 persons from overcrowded apartments in tenement-houses.

LODGING-HOUSES.

Under the provisions of the Sanitary Code a "lodging-house" is taken to mean and include any house, building or portion thereof in which persons are harbored or received or lodged for a single night, or for less than one week at a time. Lodging-houses in this city are maintained under permits issued by the Board of Health based upon certain rules as to light, ventilation and plumbing, etc.

During the year 2,099 night inspections were made for the purpose of examining the beds and bedding as to their cleanliness; also as to water-closet accommodations and to ascertain generally whether the premises were kept in good sanitary condition.

During the prevalence of typhus fever in February, March, April and December, in addition to the regular inspections by the Sanitary Police, a careful examination was made each night of each lodger by Medical Inspectors to ascertain his condition.

At the close of the year there were outstanding permits for 118 of these houses as against 116 in 1891, accommodating 14,867 lodgers as against 14,232 in 1891.

The houses are located as follows:

West of Broadway.			East of Broadway.		
Location.	Lodgers.	Houses.	Location.	Lodgers.	Houses.
South of Fourteenth street.....	1,163	12	South of Fourteenth street.....	10,883	85
Fourteenth to Fifty-ninth street.....	288	3	Fourteenth to Fifty-ninth street....	1,311	8
Fifty-ninth to One Hundredth street.	....	....	Fifty-ninth to One Hundredth street	311	3
North of One Hundredth street	....	....	North of One Hundredth street....	911	7
Total west of Broadway..	1,451	15	Total east of Broadway...	13,416	103

Total number of houses	118
Total number of lodgers	14,867
Classified as follows:	
Houses for 50 lodgers and under	31
Houses for over 50 and under 100	18
Houses for 100 and under 200	48
Houses for 200 and under 300	13
Houses for 300 and over	8

SLAUGHTER-HOUSES.

The total number of outstanding permits to conduct the business of slaughtering in this city, at the close of the year, was as follows:

	East Side.	West Side.	Total.
For cattle	34	8	42
For sheep	15	12	27
For hogs	..	9	9
For poultry	3	..	3
In all	52	29	81

The buildings used for the purpose, 34 in all, are situated between Forty-third and Forty-fourth streets, east of First avenue, and west of Eleventh avenue, between Thirty-ninth and Forty-first streets, and at Fifty-eighth street and North river, and are divided as follows:

	East Side.	West Side.	Total.
For cattle	5	7	12
For sheep	8	9	17
For hogs	..	5	5
For poultry	3	..	3
Total	16	21	37

Daily inspections of these buildings were made during the year by the Sanitary Police, under the supervision of Edward W. Martin, the Chemist of the Board, to ascertain their condition and to see to it that all offal, blood, refuse and other offensive matters were promptly removed, and that the premises were properly cleansed and purified, weekly reports being made thereon to the Board. Slaughter-houses are, at the present time, conducted in a manner as free from objection from a sanitary standpoint as the nature of the business will permit.

STABLES AND STABLE MANURE.

The removal of manure in an inoffensive manner has for a long series of years been one of the most difficult problems the Board has had to contend with. The first effort at regulating this matter was the requirement of permits for dumping, the next was the regulation for the construction of manure vaults for the storing of manure, then the prescribing of hours within which it could be removed. About 1873 the dumping of manure was confined to a few locations on the east and west sides of the city. Manure vaults were required to be made water-tight, and when there was no sewer in the street, the drainage from the stable was conducted into the vault. On the 8th day of July, 1890, section 100 of the Sanitary Code was amended as follows:

"Whenever there shall be a cartload of unbaled manure on any premises, it shall be immediately removed as herein directed, the carts or wagons being loaded within the premises and not upon the street or sidewalk. It shall not be lawful to remove manure from any stable or premises, or to cart the same within the city limits without a permit from the Board of Health, unless the manure be pressed and baled in a manner satisfactory to the Board of Health, or be in tightly covered carts or wagons of a construction approved by the Board of Health, and be removed in a manner not in any way offensive or to cause any nuisance. Every such manure cart or wagon must have a permit in writing from the Board of Health, and be used in accordance with the conditions of such permit, and not otherwise. All manure when transported through the streets must be covered and secured so as to prevent offensive odors escaping, and drippings upon the streets, or be baled or inclosed in tightly covered barrels or receptacles approved by the Board of Health. The bales, barrels or other receptacles above mentioned shall not be opened, or the carts and wagons unloaded within the city limits, except upon the conditions of a permit in writing from the Board of Health, and at such docks or places remote from dwellings as shall be approved of by the

Board of Health, and to which a permit in writing for such use shall have been previously granted by the Board of Health. When baled, manure shall be removed every ten days, or sooner, if required by the Board of Health. No manure shall be allowed to be thrown upon or to fall or remain in any street, sidewalk or ground near such stable. No manure vault under the sidewalk shall be built or used. No manure vault or receptacle outside of a stable shall be built or used on any premises, except pursuant to the terms of a permit granted therefor by the Health Department."

Since the adoption of this amendment, the Board has succeeded in causing to be discontinued the use of manure vaults outside of stables, and those in the yard of stables wherever reported objectionable, as well as the practice of loading loose manure in front of stables and the removal of manure from vaults through openings in the sidewalks and from areas. It has enforced the regulation requiring all manure carts to be tight and tightly covered, and caused the arrest of persons in charge of the same for violating this rule, by the revocation of permits for such carts.

DIVISION OF OFFENSIVE TRADES AND FOOD INSPECTION.

This division is in charge of a Chief Chemist and an Assistant Chemist, and is charged with the inspection of milk, meat, fish, fruit and food supplies, the analytical work of the Department, and the inspection of all kinds of offensive trades. For this purpose there are three Chemists, seven Milk, four Meat, four Fruit, one Fish, and two Inspectors of Offensive Trades employed.

Milk Inspection.

For the purpose of milk inspection, the city is divided into seven districts, to each of which one Inspector and one Sanitary Officer is assigned, whose duty it is to make weekly inspections of each store in their district where milk is sold (about 5,000 stores in the city) and also to make early morning inspections from time to time at the several ferries and depots where milk is received.

In the past year an improvement is noticed in the quality of the milk sold and used in this city, which is due in a large measure to the constant inspections, and the prompt punishment by the Courts of violators of the provisions of the Sanitary Code in respect to this subject. During the year 100,070 inspections have been made, and 158,465 specimens of milk examined, resulting in the arrest of 191 dealers for violation of the sanitary ordinances relating to adulteration.

Of these there were tried and convicted	157
Of these there were discharged	8
Of these there are cases pending	26
In all	191

The fines imposed upon those convicted amounted in all to the sum of $4,903.

Meat, Fish, Fruit and Food Inspection.

During the past year the Department has endeavored, as far as lay in its power, to watch over the food supply of this city, daily inspections being made in the markets, commission houses and stores where meat, fish, fruit, vegetables and other food supplies are offered for sale, to ascertain the condition thereof. The result of the work of the Inspectors charged with the inspection of meat, fish, fruit and food is as follows:

Number of inspections of meat and fish 62,080
Number of inspections of fruit and food..... 68,890
Number of pounds of meat and fish condemned, seized and sent to the offal dock..... 2,862,244
Number of pounds of fruit and food condemned, seized and sent to the offal dock..... 2,322,821

Offensive Trades.

Inspectors of Offensive Trades are charged with daily inspection of slaughter-houses and gas-houses, and the semi-weekly inspection of rendering and fertilizing manufactories. All citizens' complaints in connection with nuisances arising from offensive trades are investigated at once and frequent inspections have been made of manufacturing establishments likely to become nuisances, and whenever necessary, changes have been made in the manner of conducting business. During the year 27,913 inspections were made, resulting in 165 complaints, 4 arrests and convictions.

CROTON WATER.

Weekly analyses of Croton water were made by the Chemist to ascertain whether or not conditions existed which might tend to injure the public health. The following shows the monthly average of the condition of the Croton for the past year :

Monthly Averages of Croton for 1892. *Results in Parts per* 100,000.

Month.	Temperature, Fahr.	Appearance.	Chlorine in Chlorides.	Equivalent to Sodium Chloride.	Nitrogen in Nitrites.	Nitrogen in Nitrates.	Free Ammonia.	Albuminoid Ammonia.	Total Nitrogen.	Hardness Before Boiling.	Organic and Volatile.	Mineral Matter.	Total Solids.
January.....	36	S. T.	0.283	0.467	None.	0.0286	0.0034	0.0126	0.0418	3.36	1.90	7.03	8.93
February.....	36	S. T.	0.251	0.414	None.	0.0240	0.0009	0.0116	0.0312	3.47	1.83	6.80	8.60
March	37	S. T.	0.261	0.430	None.	0.0187	0.0003	0.0074	0.0258	4.14	1.78	6.54	8.32
April	48	S. T.	0.255	0 421	None.	0.0136	0.0006	0.0083	0.0209	4.23	1.60	6.18	7 78
May	58	S. T.	0.230	0 382	None.	0.0074	0.0008	0.0090	0.0154	4.46	2.03	6.23	8.26
June	68	S. T.	0.202	0.339	None.	0.0189	0.0010	0.0110	0.0288	5.11	2.84	6.32	9.16
July	74	T.	0.210	0.346	None.	0.0213	0.0004	0.0138	0.0329	5.15	2.68	6 25	8.93
August.....	75	S. T.	0.225	0.371	0.000175	0.0426	0.0003	0.0173	0.0378	5.56	2.20	6.55	8.75
September.....	69	S. T.	0.223	0.367	0.00012	0.0255	0 0003	0.0155	0.0390	5 69	2.36	6 48	8.84
October	59	S. T.	0.230	0.378	None	0.0397	0.0005	0.0175	0.0545	5 48	2.10	6.23	8.33
November	49	S. T.	0.232	0.381	None.	0.0298	0.0008	0.0172	0.0146	5.04	2.22	6.24	8.46
December	39	S. T.	0.264	0.435	0.00005	0.0404	0.0009	0.0118	0.0513	5.08	2.25	6.58	8.83
Average...	54	S. T.	0.238	0.364	0.00003	0.0270	0.0008	0.0128	0.0372	4.90	2.16	6.40	8.56

S. T.—Slightly turbid. T.—Turbid.

METEOROLOGY.

The mean temperature of the year as furnished by Daniel Draper, Ph. D. (in charge of the Meteorological Observatory at Central Park) was 51.75°, the mean reading of the barometer was 29.924 and the prevailing direction of the wind was northwest.

The quantity of rain that fell during the year amounted to 35.60 inches, and was less than in any year since 1849, when it was 31.74 inches. Since 1849 the rainfall has fallen below 40 inches only seven times, and has been above 50 inches seventeen out of the forty-two years. The quantity of snow that fell during the year amounted to 34.63 inches.

The following table shows in detail by months the meteorological data for the year:

METEOROLOGICAL DATA, 1892.

Month.	Mean temperature, Fahr.	Ten-year mean.	Number of days when rain fell.	Inches of rain.†	Number of days when snow fell.	Inches of snow.	Date of lowest temperature.	Minimum temperature.	Date of maximum temperature.	Maximum temperature.	Remarks.
January	31.49°	29.41°	5	.34* 4.69	6	12.25	26	9°	14	59°	Fog, 12th and 13th.
February	33.44°	31.31°	7	.07* .87	1	.13	13	14°	8	50°	Fog on the 8th instant.
March	34.16°	35.24°	4	2.31* 3.49	4	2.00	14	17°	25	56°	Fog on the 23d instant.
April	48.84°	48.75°	6	.77* 2.02	2	1.00	12	31°	4	80°	
May	59.16°	60.09°	16	4.22	..	....	8	42°	2	81°	Fog, 4th and 31st.
June	73.54°	70.84°	14	2.78	..	....	8 11	58°	13	95°	Fog on the 9th instant.
July	74.93°	74.31°	10	3.21	..	....	17	57°	29	97°	Thunder and lightning, 25th, 26th, 28 h and 29th.
August	74.26°	72 14°	11	4.16	..	....	28	60°	9	95°	Heavy dew, 4th, 6th, 8th and 24th.
September	64.65°	65.99°	4	1.06	..	....	30	49°	5	84°	Heavy dew, 3d, 4th, 5th, 9th, 10th, 11th, 12th, 19th and 30th.
October	53.03°	53.57°	5	.59	..	....	6	37°	14	76°	Heavy dew, 8th, 12th, 13th and 15th; white frost, 27th.
November	43.39°	43.65°	9	1.34* 7.14	3	6.25	23	25°	3	67°	6th, ⅛ inch of ice; 9th, first snow; 23d, ¼ inch ice; white frost, 14th, 21st and 27th; fog, 15th and 17th.
December	32.22°	34.22°	3	.59* 1.30	4	3.00	24	10°	8	58°	Fog, 8th and 14th; thunder and lightning at 4 A. M., 8th.
Year	51.87°	51.63°	94	6.42* 35.60	18	34.63	..	Average, 34.08°	..	Average, 74.83°	

† Including snow-water. Asterisk (*) indicates inches of snow-water.

DEAD ANIMALS AND OFFAL.

Dead animals are removed by the contractor, Thomas F. White, from the streets of the city to the offal dock at Thirty-seventh street, North river, and with all offal which may be delivered at the same point, are conveyed to Barren Island for final disposition. The number of dead animals removed from the streets and the quantity of offal, etc., removed from the markets and slaughter-houses, during the year 1892, was:

Horses	9,005	Cats and dogs	15,965
Calves	2,958	Dogs from public pounds	7,630
Sheep	1,007	Donkeys	1

Mules	6	Barrels of beef	2
Asses	3	Barrels of poultry	776
Colts	13	Barrels of blood	118
Cows	83	Boxes of offal	11,203
Bulls and steers	29	Boxes of fish	1,690
Hogs	23	Boxes of tenderloins	3
Tons of fish	25	Barrels of guano	3
Saddles of venison	8	Cases of cheese	150
Quarters of beef	181	Pounds of bologna	50
Quarters of veal	6,162	Tons of beef	100
Quarters of mutton	402	Cases of hams	4

VITAL STATISTICS.

The chief vital statistics bearing upon the public health are the determination of the birth-rate as to sex, and of the general death-rate; of deaths according to sex, age and disease, as to the whole of the city and as to special localities thereof.

The late Dr. Parkes only expressed the literal truth when he said, "The attention now paid to public health is in a large degree owing to the careful collection of the statistics of births and deaths, and of the causes of deaths, made in England during the last forty years. It may be said, indeed, that not only all Europe, but gradually the entire world, has been influenced by the work of the Registrar-General of England. We are now able to determine with some precision the limits of mortality and its causes, and are being led up to the consideration of the causes which bring about a high death-rate."

The compilation of vital statistics as made by the Register of Records of this city is based upon the rules laid down by the eminent statistician, the late William Farr, and furnish much valuable information, not only for the investigation of causes of diseases, but for matters pertaining to the civil and social conditions and relations of the people.

Between the years 1881 and 1889 the Board of Health ceased the compilation and publication for distribution of annual reports. We are pleased to present, as an appendix to the report for this year, complete tables of the deaths in this city by cause, sex, nativity, race and age, for each year, from 1881 to 1888, both inclusive, and many other interesting and valuable tables, which with those contained in the appendix to the reports of 1890 and 1891, complete the work of compilation of statistics from 1866 (the date of the organization of the Board of Health) to the close of 1892.

Births.

During the year there were filed for record 49,447 births, showing an increase of 2,543 over the year 1891, and largely in excess of those in any previous year. The Register estimates that only about five-sixths of the births were reported, and from a careful computation he finds that of those registered only 50.48 per cent. were reported by physicians. He is of the opinion that as it is altogether unlikely that one-half of the women in childbirth are attended by midwives, it seems probable that the delinquency in reporting births lies chiefly with the medical profession.

The act of 1866 made the reporting of births compulsory, and strenuous efforts have been made during the past two years to compel the furnishing of reports by those required by law so to do. That the Board has been moderately successful in its efforts will be more fully shown by a comparison of the births reported and recorded during the past six years.

1887	34,023	1889	37,527	1891	46,904
1888	36,136	1890	39,250	1892	49,447

Marriages.

During the year there were filed for record 16,001 marriages, showing an increase over the year 1890 of 237:

The record of marriages takes notice only of such as are accompanied by some ceremony performed by one authorized by law to perform the same.

The following table shows by comparison the number of marriages reported and recorded during the past six years:

1887	13,740	1889	14,400	1891	15,764
1888	14,533	1890	14,992	1892	16,001

Deaths.

The actual number of deaths during the year was 44,329, which makes a death-rate of 24.26 on an estimated population of 1,827,396.

Owing to the rigid system in reference to interments the record of deaths, it is believed, is as near perfect as it is possible to make it.

SUITS FOR ENFORCEMENT OF ORDERS.

The office of the Attorney continues to render valuable aid and assistance to the Board in enforcing the orders of the Sanitary Superintendent.

Of 10,594 orders referred during the year by the Sanitary Superintendent to the Attorney for prosecution 9,140 were complied with upon receipt of notice from him of his intention to commence suit.

The following statement shows in detail the work performed through the medium of this office during the year:

Number of orders received for prosecution	10,594	
Number of orders pending December 31, 1891	871	
		11,465
Attorney's notices issued on orders received in 1892	10,519	
Other Attorney's notices	2,524	
		13,043
Nuisances abated before suit	9,140	
Orders extended or in course of prosecution	271	
Number of civil actions commenced	2,054	
		11,465
The actions are classified as follows:		
For violation of sanitary ordinances	161	
For violation of Tenement-house Law	1,893	
		2,054

Civil actions pending December 31, 1891	435	
Actions commenced in 1892	2,054	
Judgments opened by the Court	220	
		2,709
Civil actions discontinued for cause (compliance with orders, etc.) by the Board of Health	2,145	
Judgments rendered in favor of Department	227	
Non-suits	. .	
Actions dismissed, non-service of summons	....	
Actions pending December 31, 1892	337	
		2,709

Disposition of Judgments.

Total number of judgments		227
Judgments opened by the Court on payment of costs	73	
Judgments opened by the Court without costs	78	
Judgments upon which execution has been issued	76	
		227
Executions issued		185
Judgments, criminal courts, violation sanitary ordinances		179
Moneys collected and paid to City Chamberlain		$527 24
Fines imposed in criminal courts		$5,283 00
Total fines in 1892		$5,283 00
As follows:		
Meat and fish	$35 00	
Milk fines	5,012 00	
Manure, swill, ashes, nuisances and plumbing	13 00	
Section 197, Sanitary Code, live fowls	135 00	
Lodging-house, cellar and overcrowding	45 00	
Decayed fruit	43 00	
Total		5,283 00

RECEIPTS AND EXPENDITURES.

During the year the receipts from various sources, all of which have been duly accounted for to the Comptroller and deposited with the Chamberlain, were as follows:

For searches and transcripts of the records	$5,522 50
Sales of vaccine virus	3,879 07
Amount collected in settlement of judgments in civil actions for the enforcement of the several sections of the Sanitary Code	527 24
Received from the United States Government for the care of immigrants (in the hospitals of this Department) who were suffering from contagious diseases at the time of their removal	15,534 20

From Nord-Deutscher Lloyd Steamship Company, for care of Carl Koch, Fireman steamship "Hermann"	$37 00
From White Star Line, for care of Ernst Freeman, Steward steamship "Teutonic"	66 00
From Ward's Line, for care of Samuel R. Hill, steamship "Orizaba"	54 50
In all the sum of	$25,620 51

The amount of money appropriated by the Board of Estimate and Apportionment, to be applied by the Health Department for the payment of salaries, disinfection, maintenance of Willard Parker, Reception and Riverside Hospitals and for the general expenses of the Department, was $469,347.17, in addition to which the sum of $15,534.20 received from the United States Government for the care of immigrants suffering from contagious diseases, and the further sum of $157.50 from the various steamship lines for the care of their employees suffering from contagious diseases, was placed to the credit of the Hospital Fund; and the sum of $45, unexpended balance, 1891, for burial of deceased soldiers was placed to the credit of the Fund for the Burial of Honorably Discharged Soldiers, etc.

Making in all the sum of	$485,083 87
There was expended the sum of	452,111 61
Leaving a balance of	$32,972 26

Herewith we append statement showing the amount of money appropriated and amount expended during the year for specific purposes:

Fund for—	Amount Appropriated.	Additional Appropriation.	Total Appropriation.	Amount Expended.	Balance.
Salaries	*$211,847 17	$18,500 00	$230,347 17	$230,246 19	$100 98
Contingent	9,000 00	†1,000 00	10,000 00	9,972 35	27 65
Disinfection	15 000 00	5,000 00	20,000 00	19,938 02	61 98
Law	2,000 00	.....	2,000 00	1,999 92	08
Sanitary Police	55,000 00	.....	55,000 00	55,000 00	.....
Removing Night-soil and Offal	36,000 00	.....	36,000 00	36,000 00	.....
Night Medical Service	1,200 00	.....	1,200 00	1,200 00	.....
Rents	3,800 00	.....	3,800 00	3,800 00	.....
Hospital Service	47,000 00	‡41,691 70	87,691 70	84,995 13	2,696 57
Burial of Soldiers	9,000 00	$45 00	9,045 00	8,960 00	85 00
Reception Hospital	30,000 00	.....	30,000 00	.....	30,000 00
Total	$419,847 17	$66,236 70	$485,083 87	$452,111 61	$32,972 26

* The original allowance was $227,138, from which the sum of $15,290.83 was transferred to the Department of Buildings to pay salaries of Inspectors of Plumbing and Ventilation, etc., transferred to it.

† Transferred from Hospital Service to Fund for Contingent Expenses.

‡ This amount is made up as follows:

Amount received for care and maintenance of sick immigrants	$15,534 20
" " " officers of steamship companies	157 50
Additional appropriation	26,000 00

§ Balance left over, 1891.

In conclusion the Commissioners desire to acknowledge the important assistance rendered to this Board in this sanitary work by all the Departments of the City Government. Whenever the Sanitary Inspectors observe any defect or condition in any sewer, dock, street or public building in this city which is likely to endanger life or health, directly or indirectly, copies of their reports are forwarded to the Department which is charged by law with the care and maintenance of such public property. Such reports have received due consideration and prompt attention, and the municipal departments are credited with many sanitary improvements which have contributed materially to the public health.

To the ability, fidelity and activity of the officers and employees of this Department is greatly due the success of its sanitary work and the important results accomplished. Their duties are exacting, laborious and often dangerous, and are performed at times and places which do not attract public observation. Only those who are connected with this Department and are responsible for its sanitary work can know and fully appreciate the devoted and valuable services of those who, at all hours of the day and night and under circumstances often disagreeable and dangerous, are laboring to protect the public from contagious disease and from dangers to life and health.

Respectfully submitted,

CHARLES G. WILSON, President and Commissioner of Health.

HEALTH DEPARTMENT—SANITARY BUREAU,
NEW YORK, December 31, 1892.

To Hon. CHARLES G. WILSON, *President:*

SIR—I have the honor to transmit herewith the annual reports for the year 1892 of the Chiefs of the Divisions of the Sanitary Bureau.

These reports detail the work performed by the respective divisions and need but little comment. The work has been unusually arduous and difficult.

In no year since the organization of the Board of Health has this City been so menaced by contagious disease, nor have so many and difficult sanitary problems presented themselves. On February 11 we were confronted with an outbreak of typhus of unprecedented severity. The details of this outbreak are given in the report of the Chief Inspector of Contagious Diseases. Suffice it to say that, owing to the efforts of the Board and its officers, the severity of the outbreak steadily diminished until the disease was completely stamped out, and no cases of it occurred during the period between July 18 and November 30. On the latter date there occurred two cases of typhus fever at No. 173 Park Row. These were followed by sixteen cases before the end of the year. This was the commencement of a new outbreak, the source of contagion of which has not yet been discovered. The severity of the present winter and the localities of the infection make this outbreak a more difficult one to stamp out than that originating among the "Massilia" emigrants.

Small-pox, during the past year, has been unusually prevalent. On August 16 I called the attention of the Board to the increased prevalence of this disease in the following report:

HEALTH DEPARTMENT,
NEW YORK, August 10, 1892.

CYRUS EDSON, M. D., *Sanitary Superintendent:*

SIR—I beg leave to call your attention to the increased prevalence of small-pox in certain portions of the city. As many of these cases had developed as far as the fourth and fifth day before

we had knowledge of them, it seems probable that they may have been concealed by their friends, or by faulty diagnosis, or neglect of physicians, and have not been reported to this division.

Some of these cases have been reported by alarmed neighbors, by Police and by the Summer Corps.

In consideration of these facts I would respectfully suggest that twenty physicians of the Summer Corps be directed, in addition to their routine work, to visit from room to room, in that portion of the city where cases have been discovered, to investigate and see all occupants therein, if perchance others suffering with the disease may not be found. That portion of the city lying west of Broadway and north of Canal street to West Fourteenth street and from Seventh avenue to West Twenty-third street.

These physicians should perform vaccination where it is requested, and be provided with a proper antiseptic solution to guard against septic infection (E—vaccination) that might otherwise occur, owing to the existence of extreme heat.

All of which is respectfully submitted.

CHARLES F. ROBERTS, M. D., Chief Inspector.

SANITARY BUREAU,
NEW YORK, August 11, 1892.

Respectfully forwarded to the office of the Board with approval. It is my opinion that very energetic measures should be at once taken to stamp out small-pox in this city.

The fact that the disease is appearing during the summer months, when windows are open, ventilation good, and the danger of contagion at a minimum, indicates the possibility of an outbreak this fall. The energetic measures recommended within are necessary.

CYRUS EDSON, M. D., Sanitary Superintendent.

The measures recommended were adopted, and with gratifying results. The disease is now well under control, and will probably soon be entirely suppressed.

In August, this country was threatened with an epidemic of Asiatic cholera, from the European ports where cholera was epidemic, and which are in close commercial relations with us. Through the energy and ability of the Health Officer of the Port of New York, the threatened epidemic was averted; nevertheless, a few cases of the disease occurred in this city, from sources of contagion that it has been impossible to trace. Through the prompt and judicious measures taken by the Board of Health and its subordinates, these cases were stamped out without the occurrence of a single secondary case. For the detail of this work, I must again refer you to the report of the Chief Inspector of the Division of Contagious Diseases.

These outbreaks of contagious diseases have, owing to the publicity given them in the public press, so centred the attention of the public on the work of the Health Department, that a great increase in citizens' complaints has naturally occurred. The work of all the divisions of the Bureau has in consequence been greatly increased. The largest number of citizens' complaints received during any single day was 1,147, on September 20.

In addition to the ordinary routine work of this Bureau, the detail of which is appended to this report, certain special work was undertaken of great interest and importance. On February 8, complaints having heen received of renewed nuisance at the Standard Gas Works, at One Hundred and Fifteenth street and East river, an inspection was made of them by Chemist Martin and Assistant Chemist Lederle. This inspection developed the fact that the works in question were conducted in a careless manner, and the President and Vice-President of the company were summoned before the Board of Health. The outcome of their conference with the Board was that no nuisance was caused by the works until April 23, when the company permitted fifty-eight barrels of drips to stand exposed in their yard. An order to remove these barrels was promptly obeyed and the nuisance thus abated. On May 17 a report was received from the Chemist stating "that the Standard Gas Company still produces a nuisance in the manufacture of gas, although not continuously. The cause of this nuisance is mainly inefficient management and lack of knowledge on the part of those who control the works." The reasons upon which this opinion was based were then set forth in detail, and the report finally recommended that efficient means be adopted:

First—To draw off and deodorize the air in the house over the separating tank.

Second—To properly separate and dispose of the drips.

Third—To draw off and deodorize the air from the purifying room.

Fourth—To prevent by increased care the minor nuisances due to laxity and carelessness in the general management of the works.

A copy of this report was served on the President of the company, and the Chemist was directed to see that the recommendations made by him were carried out. In event of continued nuisance, he was directed to obtain facts for the arrest of the officers of the company, and their criminal prosecution. The result of this was that no nuisance of any consequence was caused during the remainder of the year.

The general subject of gas-house nuisances is of interest, and, as we are constantly in receipt of questions concerning this subject, it seems proper to report the result of our experience as to the causes and means of abatement of such nuisances.

The gas-works in the city may be divided into three classes:

1. Those producing coal gas.
2. Those producing water gas.
3. Those producing gas from oils.

The nuisances arising in the manufacture of coal gas are:

1. Smoke.
2. Odors from purifying materials.
3. Odor of gas from holders, leaky mains, etc.

Smoke—Discharged into the air during the charging and emptying of the retorts. This could be in a great measure abated by drawing off the smoke by means of fans or blowers and discharging the same through a stack of sufficient height.

Purifying Materials (Spent Lime)—At intervals boxes must be opened to remove the material, during which odors of gas, ammonia and volatile sulphur compounds are given off. This may be

largely abated by removing the purifying material from the box as soon as the cover is removed, as many men being employed as can work in a box, the purifying material (spent lime) put into covered carts, taken to the river-front and loaded on scows and kept covered with a canvas cloth. Great cleanliness should be exercised in the purifying house and the floors frequently sprinkled with a weak bromine solution.

Odors from Holders, etc.—This nuisance is, of course, produced wherever gas is stored and is the result of the leaks from the innumerable rivet holes in the plates of which the holder is composed. As sections of the holder are alternately above and below the surface of water in the seals, the joints rust and minute holes are formed, allowing the gas to escape.

The joints in the mains leak, allowing the gas to escape into the ground, finally finding its way into the air. At least five per cent. of all the gas made is lost in this way.

If, through the carelessness of employees, the holder is allowed to get too full, it uncups, and large volumes of gas are allowed to escape into the air, and, in the manufacture of water gas (in which drips are always produced), a small amount of this oil will collect on the surface of the water in the cups and then be spread over the surface of the holder as it moves up and down, thus giving rise to offensive odors when these large surfaces covered with oil are exposed to the air. Ordinary care is the only means of preventing these nuisances occurring.

WATER GAS.

Odors from the spent purifying materials and from the drips, the latter being the more easily condensable illuminants with which the gas is enriched. The purifying materials (spent) should be treated in the same manner as given under coal gas, with the exception of that part of it which can be revivified and used again, as the so-called iron sponge. During the so-called revivification or oxidation, very offensive odors of gas, naphthaline and drips are given off. This revivification should be conducted either in a house from which the gases can be drawn off and destroyed, or at the water-front, during such times when the wind blows away from the city; at other times the material should be kept covered with canvas.

ODORS FROM DRIPS.

It was customary for the gas companies to allow the drips to run into the river. A portion of them floated on the surface of the water, giving off an intolerable stench. This can be readily abated by causing the condensed water from the works containing the drips to pass through separating tanks, in which the drips are caught, pumping them into suitable reservoirs, and burning them under the retorts.

GAS FROM OILS.

What has been said of water gas applies as well to oil gas. Besides the sources of nuisance mentioned, there are many smaller ones which may occur from time to time, but which are always the result of carelessness of those in charge of the works.

In conclusion, while gas-works may become a nuisance, yet if ordinary care is exercised in the processes of manufacture and a proper disposal of the offensive materials produced is maintained, there will be practically no nuisance from them.

On March 1 the Sanitary Superintendent forwarded to the Board of Health a report, stating that he had called attention of the agents of steamship lines to section 141 of the Sanitary Code, which prohibits the selling, exchanging or exposing any straw, bedding or other articles that have been exposed to the contagion or infection of any contagious disease, or have lately been in any emigrant vessel, until the same have been adequately cleansed or disinfected. This section was rigidly enforced by the Sanitary Inspectors and the Police.

To illustrate the diversity of character of the many complaints received from citizens, I give the following letter, with the report of the Chemist on the subject, and the opinion of the Counsel on its legal aspect :

To Dr. CYRUS EDSON (personal) :

DEAR SIR—I inclose a sample of what seems to me an absurd and dangerous style of confectionery, viz. : in the form of parlor matches, the effect of which might be to get little children in the habit of eating the phosphorus off real matches, and also to play with matches, which is dangerous and objectionable. I do not know whether the Board of Health can do anything to discourage this practice, but perhaps, if an Inspector was to say that the Board deemed this matter objectionable, the manufacturers or wholesale dealers might be induced to refrain from making or selling them. From the taste of them, I do not think they are pure sugar either.

Yours truly,

OFFICE OF THE CHEMIST,
NEW YORK, May 2, 1892.

CYRUS EDSON, M. D., *Sanitary Superintendent:*

SIR—I was informed by the importer that the candy matches were not intended for children, and that the retail price, viz. : Ten cents per box, would keep them out of children's hands. They were to be used as a joke. At the same time he said he was glad that his attention had been called to the matter, and would be glad to discuss the matter with the Sanitary Superintendent. The candy matches are made in Germany and consist of sugar starch, flavoring, are tipped with chocolate and colored with eosine and are suitable for consumption. Importer's name annexed, sales small.

E. W. MARTIN, Chemist.

SANITARY BUREAU, NEW YORK, May 3, 1892.

EMMONS CLARK, *Secretary:*

SIR—I have the honor to forward herewith complaint against what seems a dangerous style of confectionery, in the form of parlor matches, the effect of which might be to get little children in the habit of eating the phosphorus off real matches, also play with the latter, which, of course, is dangerous and objectionable. I do not know any law under which this practice can be prevented,

and would respectfully recommend that the matter be referred to the Attorney and Counsel, for an opinion as to whether we can take action in the premises.

Very respectfully,

CYRUS EDSON, M. D., Sanitary Superintendent.

HEALTH DEPARTMENT, NEW YORK, May 4, 1892.

Respectfully referred to the Attorney and Counsel.

By order of the Board.

EMMONS CLARK, Secretary.

OFFICE OF THE ATTORNEY AND COUNSEL,
NEW YORK, May 5, 1892.

To the Board of Health:

GENTLEMEN—The inclosed papers, referred to me by your resolution of date May 3, 1892, I have the honor to return and to report: That, as the report of the Chemist does not show that the candy matches are poisonous or unwholesome, or that there is any deceptive representation made with respect thereto, the within complaint does not call for action upon the part of the Board of Health.

Very respectfully,

HENRY STEINERT, Attorney and Counsel.

The nuisance caused by chicken slaughtering in the public markets was brought to our attention during the early part of June by an inspection made by myself of Union Market. A report on the conditions at this market was made to the Board, with recommendation that section 197 of the Sanitary Code be amended, so as to not exempt the public markets from its provisions. A second report of an inspection made by the President of the Board and the Sanitary Superintendent, on conditions found at Essex Market, was also made. This report was as follows:

HEALTH DEPARTMENT,
NEW YORK, July 16, 1892.

EMMONS CLARK, *Secretary:*

SIR—I have the honor to report that on the 15th instant, in company with President Wilson of the Board of Health, I made an inspection of Essex Market, at the corner of Grand and Essex streets, for the purpose of investigating the matter of chicken slaughtering conducted there. Two stands were found operating this business, one of which has been open and in operation for about six weeks, the other was found to have just commenced business, and had, on the morning of the 15th, for the first time killed fowl. We were informed that during the morning the former stand had killed about six hundred chickens and the latter about three hundred. This information was given us by employees of the respective stands. Several of the marketmen not connected with these stands, however, bitterly complain of the nuisance they create, and state that the number of chickens slaughtered is far in excess of the figures I have just given. It is my opinion that the

number of chickens killed in this market will be weekly increased. The fact that a second stand has been established so soon after the first tends to show that other persons will soon extend the business of slaughtering in this and in other markets by the establishment of more stands for the purpose, availing themselves of the exemption of the public markets from the provisions of section 197 of the Sanitary Code. Both stands are similarly constructed, both abut the northerly wall of the building, the more recently erected stand being west of its centre portion and the older stand east of it. Each stand consists of a room formed by deal boarding, about 15 x 10 feet in size. The fowls are secured by being suspended by the feet over a sewer-connected wooden trough, partly filled with water, their throats are cut, and the blood allowed to drip into the trough. The waste-pipes from these troughs discharge into the main house-drain of the building, and this drain in turn empties into the street sewer. This discharge of blood into the sewer is in direct violation of section 89 of the Sanitary Code. The live chickens sold for slaughtering in this market are mostly of the kind known as Western stock, being brought from Cincinnati and other western points in coops. Many fowls die in railroad transit and the coops become exceedingly filthy and unwholesome. No good reason can be advanced for the killing of chickens in public markets or elsewhere in the city, except for the exercise of certain well-known religious rites, and for this purpose ample facilities have been provided. As articles of food country-killed chickens are, in my opinion, superior to the fowls that have been exposed to the unwholesome conditions incident to transportation in a live state to this city. In a previous report on the subject of chicken slaughtering in Union Market, I recommended an amendment to the Sanitary Code, so as to allow the slaughtering of chickens in public markets only under permit issued by the Board of Health. My investigation of Essex Market and the conditions existing there leads me to the opinion that the entire business of slaughtering chickens in public markets is unnecessary, and a nuisance that is likely to become by extension a most serious one.

I, therefore, respectfully recommend that no slaughtering of chickens be permitted in any of the markets of this city, and that the Sanitary Code be amended so as to effect this result.

Respectfully submitted,

CYRUS EDSON, M. D., Sanitary Superintendent.

The matter was referred to Comptroller Myers, in compliance with his request. The Comptroller promptly canceled the leases held by the proprietors of the stands in question, and thus caused a quick abatement of the nuisance. It is proper to say that this action on the part of the Comptroller was contested in the Courts, but without avail, the Court of Appeals sustaining the position taken by him.

The work of the Meat Inspectors has been especially arduous during the past year. This has been mainly due to the fact that the price of fresh meat has been unusually high, and this has brought into the market animals, many of which were unfit for food. Based upon the following report of the Acting Chemist, an order was issued by the Board of Health requiring butchers slaughtering cows in this city to notify the Inspectors of the specific time that they intended to slaughter each lot. This order is still in force :

HEALTH DEPARTMENT—OFFICE OF THE CHEMIST,
NEW YORK, July 11, 1892.

CYRUS EDSON, M. D., *Sanitary Superintendent:*

SIR—I have the honor to report, that on Friday, July 8, twelve (12) cows from the herd of George Green, Katonah, N. Y., were slaughtered by J. Lowell, at No. 402 East Forty-fifth street, this city. One of these cows was suffering from tuberculosis, and the carcass was condemned by Meat Inspector James F. McDermott, and removed to the offal dock. On Saturday, July 9, at 8 P. M., said Lowell slaughtered sixteen (16) cows from the same herd, without notifying Inspector McDermott. When the Inspector reached the slaughter-house on Sunday, July 10, at 6.45 A. M., the carcasses were dressed, and the offal removed, so that he was unable to ascertain whether any of the animals were in a diseased condition when killed. In order to prevent the sale of meat from tuberculous cows, it is important that the Meat Inspector of this Department, on duty at the slaughter-houses, should personally inspect all cows slaughtered for human food in this city, at the time of killing.

I, therefore, respectfully recommend that the parties engaged in the slaughtering of cows in this city be required to notify Inspector James F. McDermott, or Bryce Mars, on duty at the East and West Side slaughter-houses respectively, of the times when such slaughtering is to be done.

Respectfully submitted,

ALFRED L. BEEBE, Acting Chemist.

HEALTH DEPARTMENT—OFFICE OF THE CHEMIST,
NEW YORK, August 29, 1892.

CYRUS EDSON, M. D., *Sanitary Superintendent:*

SIR—I have the honor to report that on August 10, 1892, when Meat Inspector J. F. McDermott arrived at the slaughter-house corner Forty-fifth street and First avenue, at 7.30 A. M., he found there men engaged in dressing the carcass of a cow which had died of Texas fever. On August 18 Inspector McDermott arrived at the above slaughter-house at 7.45 A. M. He found there the dressed carcass of a cow which had died of Texas fever. Neither of the above carcasses had reached the slaughter-house before 5.30 P. M. of the previous day. It is impossible for the Meat Inspector to be on duty night and day, and it would not interfere with the business of the cow butchers to any extent if the cows were slaughtered or dressed during the day.

I would, therefore, respectfully recommend: That no cows shall be slaughtered in this city, or the carcasses thereof be dressed, except between the hours of 8 A. M. and 5 P. M., and that the parties engaged in the slaughtering of cows in this city be so notified.

Respectfully submitted,

ALFRED L. BEEBE, Acting Chemist.

On August 25 a report was received from the Veterinarian of the Department, Dr. S. K. Johnson, calling attention to certain cases of splenic, or so called Texas fever, among cattle at the Union Stock Yards. I directed the Acting Chemist, Mr. A. L. Beebe, under whose direct command

the Meat Inspectors were, to make a thorough investigation of the facts in the premises, and, to aid and facilitate his work, I detailed the Veterinarian to assist him. I also personally inspected the Stock Yards in question and outlined the detail of the work for Mr. Beebe.

The following report, made by the latter, shows that the disease was more or less confined to fresh milch cows:

HEALTH DEPARTMENT OF THE CITY OF NEW YORK,
SANITARY BUREAU—OFFICE OF THE CHEMIST,
August 29, 1893.

CYRUS EDSON, M. D., *Sanitary Superintendent:*

SIR—I have the honor to submit the following report relating to the occurrence of "Texas" fever and deaths from same among cattle in this city:

Date of Arrival.	Place of Arrival.	Owner.	Where from.	Government Tag No.	Date of Removal from Stock Yards.	Slaughtered.	
						Location.	Date.
June 1	U. S. Yards	P. McCabe.	Rhinebeck, N. Y..	112002	.....	.....	.....
July 20	"	"	Kingston, N. Y	113903	....	.....	.....
" 26	"	Loeb Bros.	Buffalo, N. Y	.....	*July 27	.....	.....
" 26	"	"	"	.....	" 27	.....	.....
" 26	"	"	"	.....	" 27	.....	.....
" 26	"	"	"	.....	" 27	.....	.....
" 26	"	L. Heilbrun	Lewis Co., N. Y ...	.....	" 27	.....	.....
" 26	"	"	" ...	.....	" 27	.....	.....
" 26	"	"	Delaware Co., N. Y.	.....	" 27	.....	.....
" 27	"	A. Pickard.	Putnam Co., N. Y..	114473	†Aug. 12	Fleischauer's slaughter-house, 45th street and East river.....	Aug. 12
Aug. 8	"	P. Mohan..	Albany, N. Y.....	114589	.....	.....	.....
" 8	"	P. Curry ..	Jefferson Co., Pa..	114479	Aug. 13	.....	.....
" 8	"	" ..	Lewis Co., N. Y...	114605	‡Rem. Aug. 17 Ret. " 24	U. S. Yards.....	Aug. 24
" 8	"	L. Heilbrun	.....	.....	Aug. 10	.....	. ....
" 8	"	"	Lewis Co., N. Y..	.....	" 10	.....	.....
" 8	"	"	" ..	.....	" 10	.....	.....
" 8	"	"	" ..	.....	" 10	.....	.....
" 10	"	P. McCabe.	Coxsackie, N. Y ..	114641	.....	U. S. Yards.....	Aug. 24
" 10	"	"	" ..	114646	Aug. 10	.....	" 24
" 10	"	"	" ..	114647	.....	.....	.....

*On August 21 S. Loeb stated to me that he had lost in all twenty-two cows from Texas fever, all of which came ent, on August 26, differs materially from the above.

†In addition, Pickard stated to me, on August 23, that he procured nine cows from the Union Stock Yards abou more definite information from Mr. Pickard.

‡Between August 17 and 24, this cow was kept at One Hundred and Twenty-second street and Western

Died.		Inspector.	Diagnosis.	Character of Animal.	Remarks.
Location.	Date.				
U. S. Yards.....	Aug. 23	Beebe and Mars	Texas fever....	Fresh milk cows	Post-mortem, August 24, by Dr. Johnson, Veterinarian, Health Department; confirmed by Dr. Morris, Veterinarian, Bureau Animal Industry.
"	" 27	Mars	"	"	Diagnosis confirmed by Dr. Morris.
Stable, 47th street and East river.	" 9	McDermott....	"	"	Carcass found being dressed at Fleischauer's slaughter-house, Forty-fifth street and First avenue.
Union Hill, N. J..	?	.....	.....	"	Information from M. Loeb; death claimed to be from Texas fever.
Madaten, N. Y. ..	?	.....	.....	"	Information from M. Loeb death claimed to be from Texas fever.
"	?	.....	.....	"	Information from M. Loeb; death claimed to be from Texas fever.
New Jersey.....	Aug. 7	.....	.....	"	Information from Heilbrun; death claimed to be from Texas fever.
"	" 7	.....	.....	"	Information from Heilbrun; death claimed to be from Texas fever.
"	" 9	.....	.....	"	Information from Heilbrun; death claimed to be from Texas fever.
.....	.....	McDermott....	Texas fever....	"	Diagnosis confirmed by Dr. Morris.
U. S. Yards.....	Aug. 26	Mars.....	"	"	Diagnosis confirmed by Dr. Morris.
122d street and W. Boulevard.	" 27	McDermott....	"	"	Carcass found dressed at Fleischauer's slaughter-house, Forty-fifth street and First avenue.
.....	.....	Beebe and Mars	"	"	Post-mortem, August 24, by Dr. Johnson; confirmed by Dr. Morris.
Long Island	Aug. 24	....	.....	"	Information from Heilbrun death claimed to be from Texas fever.
"	" 21	.....	.....	"	Information from Heilbrun; death claimed to be from Texas fever.
New Jersey.....	" 21	.....	.....	"	Information from Heilbrun death claimed to be from Texa fever
"	" 21	.....	.....	"	Information from Heilbrun death claimed to be from Texas fever.
.....	.....	Beebe and Mars	Texas fever....	"	Post-mortem, August 24, by Dr. Johnson; confirmed by Dr. Morris.
.....	.....	"	"	"	Post-mortem, August 24, by Dr. Johnson; confirmed by Dr. Morris.
U. S. Yards.....	Aug. 26	Mars.....	"	"	Diagnosis confirmed by Dr. Morris.

from the Union Stock Yards and were fresh milkers. The statement made by M. Loeb to the Sanitary Superintend-

August 10, of which six subsequently died, one at the stock yards and five "in the country." I could not obtain

Boulevard.

From the above facts I draw the following conclusions:

1st. The disease is Texas fever.

2d. It has attacked "fresh milk" domestic cows only, and these cows have come from uninfected northern districts.

3d. It originated among these cows in the Union Stock Yards.

4th. It was introduced into the yards by cattle from western and southern districts, where Texas fever is epidemic.

5th. In order to successfully stamp out the disease, strict quarantine of infected cattle, thorough cleansing and disinfection, and future separation of domestic cows from animals coming from infected districts, must be rigidly enforced.

To this end the following steps have already been taken:

Seventeen (17) cows, all fresh milkers, had come in contact with the diseased cows, which have died or have been killed, since August 23, at the Union Stock Yards. Four of these cows, which have shown symptoms of the disease, are quarantined in a separate pen; the remainder are kept under observation in a separate pen. Three of these have shown symptoms of the disease, and have been at once removed to the quarantine pen. The yards, five in number, previously occupied by these cows, have been thoroughly cleaned, disinfected, and the woodwork whitewashed.

The following orders have been issued to John Ducey, Superintendent of the Union Stock Yards:

1st. That the entire yards be cleaned and disinfected, and the woodwork whitewashed forthwith.

2d. That whenever cattle from infected districts are driven into or out of the yards, the runways over which said cattle pass be cleaned and disinfected forthwith.

3d. That domestic cows and cattle from infected districts be kept in separate pens, so situated as not to allow said animals to come in contact one with another, and that under no circumstances shall domestic cows be put in pens previously occupied by cattle from infected districts, until said pens be cleaned, disinfected, and the woodwork whitewashed.

Permission has been granted to P. McCabe and P. Mahon, owners of the cows kept under observation in separate pens, as stated above, to have said cows slaughtered, subject to inspection at time of slaughtering by a Meat Inspector and the Veterinarian of this Department.

The stable owned by M. & S. Loeb, at Forty-seventh street and East river, has been cleaned, disinfected and whitewashed.

Investigation is in progress to discover the location of stables in this city, if any, in which cows suffering from Texas fever have been kept. If any such are found, orders will be given to clean, disinfect and whitewash the same forthwith.

I would respectfully call your attention to the danger of infection arising from the fact that domestic cows and cattle from infected districts are frequently driven between the stock yards and boat at the Fifty-eighth Street Pier, along the public street for a distance of about 700 feet.

Respectfully submitted,

ALFRED L. BEEBE, Acting Chemist.

The following report, also made by Mr. Beebe, recommends the thorough cleaning and disinfection of the Union Stock Yards. A copy was served on John Ducey, Esq., by order of the Board of Health, and the provisions recommended were thoroughly enforced. The result of this work was that no additional cases of splenic fever have recurred in the Union Stock Yards up to date of this annual report.

HEALTH DEPARTMENT—OFFICE OF THE CHEMIST,
NEW YORK, August 30, 1892.

CYRUS EDSON, M. D., *Sanitary Superintendent:*

SIR—In view of the facts set forth in the report forwarded to you on August 29, relating to the occurrence of Texas fever among cattle in this city, I would respectfully recommend that the following order be served on John Ducey, Esq., Superintendent of the Union Stock Yards, Sixtieth street and North river, New York City.

First—To thoroughly clean and disinfect the entire yards, both pens and runways, and to whitewash the woodwork of the same forthwith.

Second—To thoroughly clean and disinfect the alleyway and street leading from the stock yards to the pier at the foot of Fifty-eighth street and the pier itself forthwith.

Third—Whenever cattle from infected districts are brought into the yards, to thoroughly clean and disinfect forthwith the runways through which said cattle have passed, and to at once notify this Department of the date and hour at which said cattle are brought into the yards.

Fourth—Whenever cattle from infected districts are removed from the yards, to thoroughly clean and disinfect the runways through which said cattle have passed forthwith.

Fifth—To keep cattle from infected districts and domestic cows in separate pens, so situated as not to permit of contact between said cows and said cattle from infected districts, and under no circumstances to put domestic cows in pens previously occupied by cattle from infected districts until said pens have been thoroughly cleaned, disinfected and the woodwork whitewashed.

Sixth—To perform the work of cleansing, disinfecting and whitewashing in such manner as may be directed by the Chemist or Assistant Chemist of this Department.

Respectfully submitted.

ALFRED L. BEEBE, Acting Chemist.

During July a number of complaints were received from persons residing in the vicinity of Lion Park, situated at One Hundred and Seventh street and Columbus avenue, alleging that a nuisance was caused by the noise, etc., emanating from the park in question.

I personally inspected the park on the 27th and 29th of June, between 11 and 12 P. M.; also July 28, at 10 P. M.; also July 31, at 10.30 P. M. During none of these inspections was any excessive noise noticed, nor was there anything observed that could be considered dangerous to the life, or detrimental to the health of persons enjoying the park, or of residents of the neighborhood. I referred the matter to Inspector Shrady, who reported no cause for complaint from a sanitary standpoint. I caused officers of the Sanitary Squad to visit the dwellings and tenements situated nearest to Lion Park, for the purpose of ascertaining if the occupants were annoyed by the alleged nuisance. It was demonstrated in the reports of the Sanitary Police, that no complaint was made

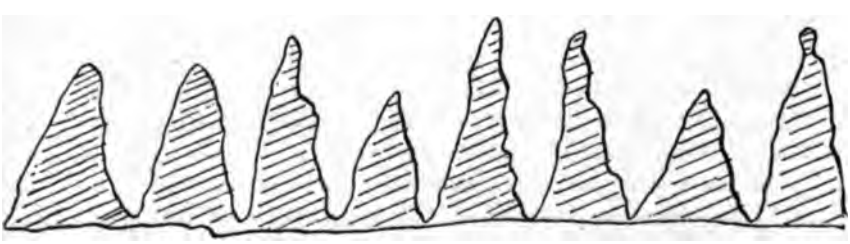
by persons living nearest the park. I caused the number of feet that each house was distant from the park to be placed in red over the street number of the house in each report, so that the distance of each non-complainant's house from the source of alleged nuisance could be seen at a glance. I also caused the distance of each complainant's house to be designated in a column opposite the location of his house in the complaint, so that the distance of each of these dwellings from the source of the alleged nuisance might also be seen at a glance. It was at once evident that the complainants lived at such a distance from the site of the alleged nuisance, that it would seem almost impossible for any ordinarily loud sound to have reached their dwellings. If a noise nuisance existed sufficiently loud to effect discomfort to the complainants, the effect upon those who lived nearer than the latter to the source of the nuisance, but do not complain, would have been very severe. The distance of the nearest complainant's house was 250 feet, while, on the other hand, a family who lived within 180 feet declared that they have no cause for complaint. It was my opinion that no nuisance existed at Lion Park, that called for action on the part of the Board of Health.

On August 23 I directed the Chemist to obtain a list of wells in this city, excluding the district north of the Harlem river, known as the Twenty-third and Twenty-fourth Wards, and to secure for analysis samples of the water from such wells.

The locations of the wells found and the result of the analysis of the water from each was as follows:

Analysis No.	Location.	Result.
7083	Greenwich and North Moore streets.....	Well water contaminated with sewage.
....	No. 66 Greenwich street.....	" "
....	Corner Morton and Hudson streets	Croton contaminated with surface water.
....	One Hundred and Twenty-fifth street, near Fourth avenue.....	Well water contaminated with sewage.
....	Lawrence street, between Ninth and Tenth avenues	" "

The recommendation that the above-described wells be forthwith closed, was forwarded to the Department of Public Works, and the latter department promptly co-operated with the Board of Health by closing the wells. The arrangement of the geological substrata of Manhattan Island is such that no well can exist within its boundaries uncontaminated by sewage. Originally the trap rock was deposited in layers, but subsequently an upheaval took place that threw these layers into folds, thus:



The above diagram represents schematically a section of the substrata of Manhattan Island, the trend of the rock being about north and south. If a well be sunk and the site chosen happens to strike the apex of a fold, no water could be obtained. This occurred to a company who undertook to sink a drive-well in one of the principal hotels of this city, several years ago. The pipe was driven about 2,000 feet without reaching any water-bearing strata. If, on the other hand, the well is sunk into the valley of the fold, an ample water supply is found, but the water-shed that supplies this water-bearing strata is the surface comprised between the apices of the folds, and this is the surface water that leaches between the pavements and the leakage from the sewers.

The amount of filtration and oxidation that this liquid obtains in passing through the earth to the water-bearing strata is not sufficient to render it safe for potable purposes. It follows, then, as an axiom, that no water from wells on Manhattan Island should be used for drinking purposes without previous boiling.

In regard to the Croton water supply, I must refer you to the report of the Chemist. The reports of this official, based upon analysis and inspection of the Croton water-shed, have during the past five years shown that the Croton supply has slightly, but perceptibly and steadily, deteriorated. This is due to the fact that the population of the water-shed has steadily increased, and that, in consequence, an increased amount of sewage has found its way into the water. Thus far the immense volume of water has so diluted it as to effect its speedy oxidation, but the appearance of nitrites in the water during the summer months of 1891 and 1892 shows that the limit of safety has been reached, and that steps should be at once taken on the part of the City, either to secure title to the land comprising the water-shed, or such portion of it as is adjacent to the water-courses, or to construct a drainage system that will carry off the sewage from the towns and hamlets on the Croton water-shed. I need not say that in the face of a threatening visitation of Asiatic cholera, the necessity for guarding the Croton water-shed is of paramount importance.

On September 21, a communication was received from the Acting Secretary of the Department of Taxes and Assessments, transmitting a report made by James Deignan, Deputy Tax Commissioner, in relation to the filthy condition of the Mott Haven Canal. The report referred to stated that the upper end of the said canal was in a filthy condition. Sanitary Inspector E. F. Hurd had already been (September 15) directed to make a sanitary survey of the canal, and to report its condition to the Sanitary Superintendent. The following is the copy of the report:

To the Board of Health:

I, E. F. Hurd, holding the position of a Sanitary Inspector in the Health Department of the City of New York, do report: That on the 15th day of September, 1892, I personally examined and carefully inspected the Mott Haven Canal, and found the facts as follows: Said premises consist of a canal, and were found in a condition dangerous to life and detrimental to health, for the following reasons:

Probably no single feature of the topography of the Annexed District has given rise to wider discussion than the Mott Haven Canal. The section south of One Hundred and Thirty-eighth street was opened under authority of the State, by virtue of a water grant in the year 185-. This much of the canal, therefore, possesses a legal status as a water-way, under the laws of the State, which is entirely different from that portion north of One Hundred and Thirty-eighth street.

The complaints which have arisen, to the effect that the canal is a nuisance, are almost entirely confined to that portion north of One Hundred and Thirty-eighth street. This portion dates back no further than 1868, a few years before annexation. Under a permit granted by the Board of Trustees of the old Town of Morrisania, Messrs. Rider and Conkling, then owners of the land through which the canal passed, continued the water-way northward to its present terminus, which is the south side of One Hundred and Forty-fourth street. The town permit, however, was coupled with certain conditions, to the effect that said parties and their successors in the ownership of the land abutting upon the canal must construct and maintain bulkheads along the banks, dredge out the channel to a proper depth, so as to admit of the tides flowing in and out over the entire length, and finally, keep the canal clean and in a good sanitary condition. The Town of Morrisania was, on the other hand, to have the right of using the canal as a sewer outlet.

For years past there has been no pretense of dredging out the canal. The bulkheads have all rotted away and tumbled in. The tide does not flow in and out freely, owing to a lock, and the canal has become a nuisance and dangerous open sewer, which is a public nuisance in the strongest and most unsavory sense of the term.

The legal successor of the Town of Morrisania, the City of New York, does not take advantage of the condition of the original grant allowing the use of the channel as a sewer outlet, except in the single instance of two hundred feet of twelve-inch pipe sewer on One Hundred and Forty-fourth street, between the canal and Rider avenue. There are only two or three houses connected with this sewer, and about a year ago this Department caused all the privy-houses which had been constructed over said canal to be removed, and sewer-connected water-closets substituted, at the same time several stables which drained into same were ordered sewer connected. It is evident, therefore, that the menace to health caused by the present condition of the canal cannot be due to its being utilized by the city as a sewer outlet, but arises entirely from the inevitable accumulation of impurities, which is not interfered with by the tide or by the very necessary operation of dredging out the bottom, or filling same in and abolishing it. Which would be obviated if the conditions under which the permit was granted were adhered to.

NOTE.—Mr. Rider died September 24, 1892. Mr. Conkling I know nothing about.

E. F. HURD, M. D., Sanitary Inspector.

This report was referred to the Corporation Counsel, William H. Clark, Esq., who rendered an opinion to the effect that if the canal was a public nuisance, the proper Department to abate it was the Board of Health. Acting on this opinion, the Sanitary Superintendent made a personal inspection of the canal on the 21st of October, and submitted the following report:

HEALTH DEPARTMENT, NEW YORK, October 22, 1892.

EMMONS CLARK, *Secretary:*

SIR—I have the honor to report that I have made a personal inspection of the Mott Haven Canal. This inspection was made on the 21st inst.

I found the canal filled with water strongly contaminated with sewage, and the odor from it was extremely offensive. The bulkheads lining the canal have rotted away and tumbled in, and,

owing to the lock, the tide does not flow in and out freely. A sewer, about twelve inches in diameter, drains into the canal at its upper end. There is no circulation of water in the canal; its condition is analogous to that of a dead end of water-pipe.

I respectfully recommend that the said canal be declared a public nuisance, and that proper steps be taken to abolish it.

I have the honor to submit herewith a diagram showing the location of the canal, and the names and business interests of persons owning and controlling property along its banks, also its dimensions. The owner of the canal is said to be Mr. Frank Rider, who inherited his interest from his father, who died September 24, 1892. Residence of Mr. Rider is in the Knickerbocker Hotel, corner of One Hundred and Thirty-eighth street and Mott avenue.

Respectfully submitted,

CYRUS EDSON, M. D., Sanitary Superintendent.

The cold weather having temporarily partly abated the nuisance, the foregoing report was "laid on the table," by the Board of Health, to be taken up at a subsequent date before spring.

On September 30, 1892, a number of claims were filed in the Sanitary Bureau for goods destroyed on account of infection by Asiatic cholera, or what was at the time of destruction premised to be such infection. The latter referred to infection by several cases of disease that simulated Asiatic cholera so closely that it was deemed best to treat them as such, and to destroy goods that were presumably infected by them. Subsequent biological examination of these cases demonstrated that they were not due to the spirillum of cholera Asiatica.

The view taken of the claims in question was that real infection by contagious or infectious disease, when beyond the safe possibility of disinfection, was analogous to the destruction of the goods by the elements, and the said goods were really rendered worthless and dangerous for human use by the act of Providence or Divine Will, and not by any act on the part of the Board of Health, or of the Commonwealth. Consequently, the latter should not reimburse the losers of the property. In the cases where goods were destroyed as a matter of policy, on account of supposed infection, that subsequent events proved did not exist, the claims were ordered paid, and were paid.

Early in September, it was decided, owing to the presence of cases of Asiatic cholera in the city, to stop the work of trimming the scows of the Street Cleaning Department. This work consists in gleaning whatever may be of value from the ashes and garbage that are brought to the dumps, such as bones, rags, old iron, bottles, etc. The privilege of doing this work is valuable on account of the property obtained, and a source of large revenue to the City. During the prevalence of such infectious disease as Asiatic cholera in the city, the refuse at the dumps would be presumably infected. About the first of November the work was permitted to be resumed, but with the proviso that all gleanings from the dumps should be disinfected. The latter provision was, with some difficulty, carried into effect.

During the year several tuberculosis herds of cows were discovered, through the work of the Veterinarian and the Meat Inspectors. One instance of this that was found by the State Veterinarian is of great interest.

The following letter to President Wilson, which was referred to me, explains itself:

STATE BOARD OF HEALTH,
WHITE PLAINS, December 8, 1892.

Hon. CHARLES G. WILSON, *President of the New York City Board of Health:*

SIR—There is a herd of about forty cows at the farm of Mrs. A. A. Adams, in the northern part of New Rochelle, on the boundary of Scarsdale, in Westchester County, about twenty-five per cent. of which are suffering from tuberculosis. The farm is managed by one J. McGibney, who refuses to allow the cattle to be taken for slaughter by the State Board of Health. As it may take a few days to take the necessary legal steps to obtain possession of and kill the diseased animals, I deem it my duty to inform you of the facts in the case, as this milk is being sold in New York City. It is sent in small cans marked "A. A. Adams," Scarsdale.

Very respectfully,

AUSTIN PETERS, M. D. V. S.,
Chief Inspector of Cattle for the New York State Board of Health.

I directed the Acting Chemist to intercept and seize all milk coming from the infected herd. The following correspondence and report show the result of the work:

[Telegram.]

NEW YORK, December 11, 1892.

J. MCGIBNEY, Scarsdale, N. Y.:

By order of Dr. Edson, Sanitary Superintendent, I seized seven cans of milk from American Express, marked "W. Adams," as coming from diseased cows. Send no more to this city. See letter.

ERNEST J. LEDERLE, Acting Chemist, New York Health Department.

NEW YORK, December 11, 1892.

J. MCGIBNEY, *Manager, Adams Farm*, Scarsdale, Westchester Co., N. Y.:

DEAR SIR—I am instructed by Dr. Cyrus Edson, Sanitary Superintendent, to inform you that seven cans of milk (about 70 quarts), marked W. Adams, Scarsdale, shipped by you per American Express to this city, were seized this morning by his directions as being milk from diseased cows and unsafe for human food. The sealed cans are at the laboratory, No. 32 Bleecker street.

You will please send a representative here at the earliest possible time to open the cans, when samples will be taken in his presence and sealed samples given him.

You are directed to discontinue forthwith the sending of milk from diseased cows to this city. All such milk will be seized and destroyed and you will be prosecuted.

Respectfully,

ERNEST J. LEDERLE, Acting Chemist.

HEALTH DEPARTMENT,
NEW YORK, December 12, 1892.

Dr. CYRUS EDSON, *Sanitary Superintendent:*

SIR—I have the honor to report that, according to your instructions, I seized seven sealed cans of milk (each about ten quarts) at Grand Central Station, December 11, which were in transit per American Express Company. The milk was shipped from the Adams Farm, Scarsdale, Westchester County, N. Y., by J. McGibney, manager, and, according to annexed letter of Dr. Austin Peters, Chief Inspector of Cattle for the New York State Board of Health, came from a herd of cows suffering from tuberculosis. The cans were all marked "W. M. Adams, Scarsdale, N. Y.," and were consigned to a number of our best citizens.

I had the cans removed to laboratory, No. 42 Bleecker street, and notified J. McGibney as per annexed copy of telegram and letter. I notified all the consignees why the milk had been seized. Mrs. Adams, the owner of the farm, informed me that she had sent instructions to her manager to allow the Board of Health to proceed without any interference, and will gladly co-operate with the City Health Department. Her man informed me that he is on his way to Scarsdale to have the cattle removed and killed, and assures me that no more milk from that herd will be sent to this city. An inspection at 7.30 this A. M., at Grand Central Station, proved that sending of the milk from this farm had been discontinued.

Respectfully,

ERNEST J. LEDERLE, Acting Chemist.

The milk in question was used to inoculate guinea pigs by Drs. Prudden and Biggs of this Department. The animals thus inoculated developed tuberculosis and died.

Through our action, the State Veterinarian obtained access to the farm and destroyed the infected cows.

FOOD INSPECTION.

The supervision of the food supply of this city has been remarkably effective during the past year. Notwithstanding the limited number of Inspectors employed in the Division, under the Chemist, charged with this important work, the results obtained, as shown in the report of the Chemist, are highly satisfactory. The meat and milk supply of a great city require to be watched with the utmost vigilance in order to prevent frauds that affect not alone the pocket of the consumer, but also his health.

The system of inspection of slaughter-houses and other places where food is prepared or offered for sale, is such as to accomplish the best results with the least possible outlay of time. Systematic adulteration of food such as was practiced a few years ago is no longer possible. The certainty of exposure exercises a deterrent effect that prevents manufacturers and venders from tampering with their wares. In the work of food inspection we are greatly aided by honest manufacturers. I will illustrate the manner in which this is done, by citing as an example the action of manufacturers of confectionery.

A few years ago, when in charge of the Division of Food Inspection, I detected a large number of manufacturers of confectionery adulterating their goods with poisonous pigments and other harmful materials. The resulting exposure of this crime so injured the sale of all confectionery, that the manufacturers were compelled to form an association for their own protection. This

association has a standing reward offered for the detection of any person found adulterating candy. All its members sign a pledge that they will not adulterate in any manner the goods made by them. The association comprises all the leading firms in the confectionery business. The result of this direct outcome of the work of the Health Department of the City of New York is, that to-day not a single pound of adulterated candy can be found within its limits.

OFFENSIVE TRADES.

It has always been the policy of the Board of Health to control as far as possible those businesses that give rise to nuisances in the operation of their works, without driving from the city the capital and labor employed in them, which, as was stated in last year's report, "would deprive the city of much of its material prosperity."

Wherever human beings are gathered in communities, certain factories exist for the production of articles of necessity, the making of which causes nuisances of different character. Smoke, noise and noxious odors are the usual causes of offense. The definition of a nuisance includes, not alone anything that is dangerous to the life of a person, but also anything that interferes with the proper enjoyment of his existence. It has often been a matter of extreme delicacy to draw the line between a public and a private nuisance. Quarrels between neighbors, arising from slight causes, are often brought to the notice of the Department by exaggerated complaints of so-called nuisances. We have thus far been able to adjust such differences without much trouble, though occasionally we have been compelled to disclaim jurisdiction.

The real nuisances caused by such offensive trades as affect a number of persons, if the result of noise, may generally be sufficiently abated by limiting the operation of the business to the hours of daylight; or if by smoke, the use of proper smoke consumers, and of anthracite coal, or the extension of the chimney to a suitable height, usually suffices to relieve those affected. Noisome odors are destroyed by scrubbers, or by an arrangement of pipes that will conduct them under the boiler fires, where they are consumed, or in some cases they are destroyed by the operation of a combination of the two latter methods.

STABLES.

The 62,000 horses, with their 500 tons of daily production of manure, have been, so far as their habitations are concerned, carefully watched, and the policy that has abolished the sidewalk manure pit rigidly followed. The substitution of cable traction for surface railroad cars in place of horses, will soon remove a large number of horses from this city. This will be a very important sanitary advance. The few cow stables, nearly all of which are in the Twenty-third and Twenty-fourth Wards, have been carefully inspected, both as to their sanitary condition and the health of their bovine occupants.

TENEMENT-HOUSES.

The semi-annual inspections of tenement-houses, required by law, have been made, and the Sanitary Inspectors have, in addition to these, made numerous house-to-house inspections of the tenement-houses, both on account of contagious diseases and in answer to citizens' complaints. Numerous night inspections have been made to prevent overcrowding of the tenement-houses, and wherever the number of persons found exceeded one to every 400 feet of air space for adults, and one child to every 200 feet of air space, the number of persons have been reduced in conformity with such requirements.

The law forbidding the use of cellars as places of human habitation has been rigidly enforced.

HOUSES UNFIT FOR HUMAN HABITATION.

Whenever it has been necessary to declare a house unfit for human habitation, by reason of defective plumbing or drainage, or on account of want of repair, the Sanitary Superintendent has, after a personal inspection, recommended that it be vacated of its occupants within ten days. Invariably during the past year, such action has resulted in the necessary repairs being made.

LODGING-HOUSES.

The 116 lodging-houses in this city have been carefully watched, and inspections have been made of them for the purpose of preventing overcrowding, and of discovering possible sanitary defects that might be caused by accident or wear and tear of plumbing and drainage.

PUBLIC SCHOOLS.

Shortly after assuming the Sanitary Superintendency, I directed Dr. Moreau Morris to inspect the public school buildings in this city, and to report upon their sanitary condition, particularly as to the effectiveness of the system of ventilation in use in each school. I also directed Dr. Morris to recommend the adoption of such means as in his judgment would adequately ventilate the buildings in question, if his inspection should demonstrate the present means of ventilation to be inadequate for the purpose. On June 6, I forwarded to the Board of Health, for its consideration, the reports and recommendations made in the cases of five of the buildings examined. These buildings are :

Grammar School No. 10, at No. 180 Wooster street.

Grammar School No. 42, at No. 30 Allen street.

Grammar School No. 69, at No. 125 West Fifty-fourth street.

Grammar School No. 67, at No. 225 West Forty-first street.

Grammar School No. 70, at No. 215 East Seventy-fifth street.

In other cities and states, more especially in Massachusetts, excellent work has been performed by the authorities in effecting proper ventilation of school buildings. The outcome of this work has demonstrated that the only adequate means of ventilation of school buildings is by fans, so arranged and operated as to force into the rooms a supply of air equal per minute to about 30 cubic feet per capita, and by outlet ducts so constructed as to permit egress of partially respired air.

Dr. Parkes, one of the best authorities on ventilation, states that "the ventilation of a room is imperfect when it fails to introduce fresh air in sufficient quantity to remove all sensible impurities, so that coming from the external air we shall not perceive a trace of odor, or any difference between the room and the outside atmosphere in point of freshness." He found by repeated experiments that the organic products of respiration began to be manifest to the senses when the carbonic acid of the air of an occupied room reached six volumes in ten thousand, its proportion in pure air.

In the cases of the buildings upon which the reports of Dr. Morris were made, it needed no chemical analysis of the air to demonstrate that the means of ventilation were insufficient. Application of the principle of Dr. Parkes showed the fact beyond question. It is unnecessary to describe the unhealthful effects of vitiated air upon the systems of human beings, in order to show the necessity for the work in hand. Aside from the well-known direct effects of bad air, slight physical ailments of children, wholly unnoticed, are often developed by the impurities of the air of our school-rooms into serious diseases.

The only objection that could be made to the recommendations of Dr. Morris is that their compliance would entail the expenditure of a large sum of money. This objection should not, and has not obtained for a moment against the health of the school children. Pure air is absolutely essential to their well being. The air of our school buildings should be made pure, regardless of cost.

Copies of the reports of Dr. Morris were forwarded to the Board of Education, and I am informed that these reports were submitted to the Board of Estimate and Apportionment, and that the latter body have wisely appropriated the sum of $100,000 for the purpose of carrying into effect the recommendations of the Board of Health.

CONTRACT FOR REMOVAL OF DEAD ANIMALS, OFFAL, NIGHT-SOIL, ETC.

The provisions of the contract for the removal of dead animals, offal, night-soil, etc., from the streets, etc., have been faithfully carried out by the contractor. The total number of animals removed from the streets under this contract was 36,743. The detail of this work will be found appended.

WORK PERFORMED IN THE SANITARY BUREAU.

The following is a summary of the operations of the Sanitary Bureau, which is charged with the duty of inspecting and reporting in proper form all nuisances or causes of danger to the public health, with the execution of the orders of the Board, and with the care of contagious diseases:

The number of inspections and reinspections made by the Sanitary Inspectors and the Sanitary Police was 696,908, classified as follows:

By the Sanitary Inspectors	62,943
By the Sanitary Police	321,888
By the Division of Contagious Diseases	32,478
By the Division of Plumbing and Ventilation	20,646
By the Milk Inspectors	100,070
By the Fruit and Food Inspectors	68,890
By the Meat and Fish Inspectors	62,080
By the Offensive Trades Inspectors	27,913
Total	696,908

The number of complaints returned was 30,700, classified as follows:

By the Sanitary Inspectors	16,721
By the Sanitary Police	13,806
By the Offensive Trades Inspectors	165
By the Meat and Fish Inspectors	4
By the Fruit and Food Inspectors	4
Total	30,700

The number of complaints received from citizens was 23,633, all of which were referred to the Sanitary Inspectors and the Sanitary Police for investigation and report.

The Sanitary Superintendent during the same period, under instruction and authority of the Board, granted 2,700 permits to discharge cargoes, under proper vouchers from the Health Officer

of the Port ; 1,246 permits to scavengers to empty privies ; 152 permits to land rags (in bulk) under bonds ; and 592 miscellaneous permits under the Sanitary Code.

The following is a summary of the work performed by the Sanitary Inspectors :

Number of inspections and reinspections made	62,943
Number of complaints made	16,721

The following premises and locations have been inspected and reported upon by the Sanitary Inspectors, a summary of which is as follows :

Summary of Inspections.

Tenement-houses	19,560
Lodging-houses	138
Private dwellings	2,905
Other dwellings	1,801
Public buildings	138
Other buildings	891
Dangerous buildings	2
Offensive trades buildings	32
Manufactories and workshops	772
Stores and warehouses	444
Stables	1,319
Sunken and vacant lots	380
Public highways	138
Receiving-basins and public sewers	151
Dumps and dumping grounds	6
Docks and piers	14
Public parks	115
Slaughter-houses	336
Watercourses	8
Cemeteries	1
Gas-mains	7
Canals	3
Croton-water mains	2
Total	29,163
Total reinspections	33,780
Total inspections and reinspections	62,943
Number of privy vaults ordered abolished	244
Number of cellars ordered to be made water-tight	187

The following is a summary of reports made by the Sanitary Inspectors, with the result of inspections :

Nature of Complaint.	Cause.	No Cause.	Total.
Plumbing	8,304	3,013	11,317
Drainage	2,823	2,252	5,075
Ventilation	2,607	149	2,756
Light	56	28	84
Noise	4	7	11
Dangerous structures	490	14	504
Stables	653	156	809
Manure vaults	225	6	231
Public highways	34	12	46
Repairs	3,938	206	4,144
Cellars and basements	3,269	439	3,708
Privies and water-closets	8,042	609	8,651
Cesspools	534	36	570
Chimneys	215	94	309
Croton water	346	230	576
Cows, etc	31	7	38
Fowls	65	6	71
Filth	5,449	2,644	8,093
Sunken and vacant lots	270	62	332
Streets, gutters and sidewalks	67	24	91
Sewers and receiving-basins	134	17	151
Ash and garbage receptacles	18	....	18
Dangerous buildings	24	8	32
Offensive trades buildings	30	2	32
Gas and steam mains	12	2	14
Croton-water mains	4	3	7
Watercourses	4	....	4
Wells	11	4	15
Dumping grounds	....	1	1
Docks and piers	1	....	1
Totals	37,660	10,031	47,691

Number of inspections and reinspections	62,943
Number of inspections on—	
Complaints and reports forwarded for Board's orders	16,026
Complaints and reports forwarded to Sanitary Superintendent	695

Number of inspections on—	
Complaints and negative reports	6,784
Miscellaneous	5,658
Total	29,163
Number of reinspections on—	
Orders forwarded	25,098
Miscellaneous	8,682
Total	33,780
Number of visits to Court	317
Number of visits to Department	3,033

The following is a summary of the work performed by the Sanitary Police :

Number of inspections and reinspections made	321,888
Number of complaints made	13,806
Number of complaints made and forwarded to the Sanitary Superintendent	7,200
Number of complaints made and forwarded to the Sanitary Inspectors	727
Number of complaints made on complaints of citizens and forwarded to the Sanitary Superintendent	5,383
Number of complaints made on overcrowding in tenements	1,223
Number of citizens' complaints received from Sanitary Bureau	10,976

The number of orders received, inspected and reported upon was 50,578, of which number, with 1,193 orders held for reinspection at date of last report, there have been returned to the Sanitary Superintendent :

Orders complied with	25,382
Orders not complied with	25,499
Orders held for reinspection, work progressing	890
Orders received from the Division of Contagious Diseases to stop work, close stores and keep premises under observation	148
Relieved from observation	153
Number of night inspections of tenement apartments to report overcrowding	40,552
Number of complaints of overcrowding made and forwarded for orders	1,223
Number of orders issued by the Board to reduce the number of occupants in overcrowded apartments	1,210
Number of orders complied with	1,105
Number of orders not complied with	38
Number of persons removed from overcrowded tenements	2,127
Number of notices of violations served	38
Number of letters delivered	11,391
Number of water-closets ordered in lieu of privy vaults	332
Number of ash receptacles removed from outside stoop-line	13,812

Number of scavenger permits collected and forwarded to the Sanitary Superintendent....	1,062
Number of manure dump inspections	1,016
Number of lodging-house inspections	2,099
Number of tenement-houses inspected (general inspections).....	86,113
Number of tenement-house inspections (under the law), house-to-house inspections.....	125,665
Number of slaughter-houses inspected.....	3,909
Number of stables inspected.....	13,253
Number of miscellaneous inspections and reinspections of other than tenement-houses...	34,700
Number of notices served directing burial of persons who died from contagious diseases..	2,358
Number of postal cards transmitted to the Department of Street Cleaning.....	135

Number of Complaints and Violations Reported.

Nature of Complaints and Violations.	Complaints Made.	Nuisances Abated by Personal Effort.	Total.
Air-shafts filthy, not covered or connected with the house sewer	610	408	1,018
Areas filthy and dangerous	1,320	654	1,974
Ash-boxes in violation of the Sanitary Code	472	14,015	14,487
Balusters and stairs dangerous	229	74	303
Cellars filthy	3,919	2,743	6,662
Cellars occupied as a place of dwelling or lodging	291	....	291
Cellar doors dangerous	42	....	42
Cellars not water-tight	21	....	21
Cellar ceilings not plastered	18	....	18
Cesspools	99	....	99
Chimneys dangerous and obstructed	155	....	155
Clothes-poles dangerous	9	....	9
Cows, no permit	16	....	16
Docks filthy	13	156	169
Dogs in violation of the Sanitary Code	83	....	83
Drains obstructed or defective	250	....	250
Drains not provided with a running trap or fresh-air inlet	1	....	1
Eaves gutters defective or dangerous	106	....	106
Fences dangerous	49	....	49
Fire-escapes filthy or obstructed	108	33	141
Flooring broken, dangerous or filthy	1,004	116	1,120
Fowls, no permit	258	1	259
Fresh-air inlets obstructed	8	2,513	2,521
Goats, no permits	65	....	65
Halls not properly ventilated	52	....	52
Hogs, no permit	6	....	6

Nature of Complaints and Violations.	Complaints Made.	Nuisances Abated by Personal Effort.	Total.
Hydrants out of repair	129	....	129
Ice-boxes defective	4	....	4
Ice-boxes not connected with a properly-trapped, Croton-supplied sink	340	....	340
Inside rooms not properly ventilated	19	....	19
Lodging-houses, no permit	11	....	11
Leaders defective, obstructed or dangerous	337	....	337
Manure vaults in violation of the Sanitary Code, or no permit	124	....	124
No appliances to receive and distribute water on every floor of tenements	2	...	2
Pigeons kept	220	....	220
Pumps out of repair	40	....	40
Privy accommodations not sufficient	36	....	36
Privy vaults full, offensive or out of repair	716	....	716
Privy houses filthy or out of repair	1,640	879	2,519
Premises not connected with street sewer	81	....	81
Rags stored in tenement-houses	111	....	111
Rabbits kept	38	....	38
Receiving-basins full or offensive	222	....	222
Roofs leaking or filthy	1,124	61	1,185
Schools kept in tenement-houses	20	6	26
School sinks out of order or neglected	723	489	1,212
Stable yards filthy, not paved, graded or sewer connected	232	233	465
Stables in tenement-houses	54	....	54
Skylights broken	137	....	137
Stoops dangerous	72	....	72
Soil-pipes obstructed, defective or not ventilated	506	....	506
Sinks filthy, defective or not trapped	568	10	578
Sidewalks filthy, dangerous or not flagged	217	157	374
Street pavements dangerous	272	....	272
Streets or gutters filthy or obstructed	463	457	920
Street culverts obstructed	2	2	4
Smoke-houses in tenement-houses, no permit	14	....	14
Supply pipes obstructed or defective	716	....	716
Trees dangerous or noxious	3	....	3
Tenement-houses overcrowded	109	....	109
Urinals not trapped, flushed or sewer connected	321	52	373
Vacant lots filthy, dangerous, not fenced or sewer connected	544	12	556
Vault covers or gratings dangerous	18	....	18

Nature of Complaints and Violations.	Complaints Made.	Nuisances Abated by Personal Effort.	Total.
Water-closets out of repair or filthy	1,326	22	1,348
Water-closets not trapped or ventilated	30	....	30
Water-tanks filthy	1,393	89	1,482
Walls and ceilings filthy or out of repair	4,923	....	4,923
Waste-pipes obstructed, defective, or not ventilated	402	....	402
Yards filthy, not properly graded, or sewer connected	2,489	3,617	6,106
Yard pavements out of repair	476	....	476
Totals	30,428	26,799	57,227

The number of dead animals removed from the streets, and the quantity of offal, etc., removed from the markets and slaughter-houses, by the contractor, was :

Horses	9,005	Barrels of beef	2
Donkeys	1	Barrels of poultry	776
Mules	6	Barrels of blood	118
Asses	3	Boxes of offal	11,203
Colts	13	Boxes of fish	1,690
Cows	83	Boxes of tenderloin	3
Bulls	3	Barrels of game	3
Steers	26	Cases of cheese	150
Calves	2,958	Pounds of bolognas	50
Sheep	1,007	Tons of fish	25
Hogs	23	Tons of beef	100
Cats and dogs	15,965	Cases of game	20
Dogs from public pound	7,650	Cases of ham	4
Quarters of beef	181	Number of sausages	18
Quarters of veal	6,162	Saddles of venison	8
Quarters of mutton	402		

Work Performed by the Division of Plumbing and Ventilation* for the Five Month ending May 31, 1892.

Number of inspections and reinspections made	20,646

Plumbing and Drainage of New Buildings.

Plans and specifications filed and reported upon	659
Buildings included in such plans and specifications	614

* This Division was transferred to the Department of Buildings, June 1, 1892, by act of the Legislature.

Tabled and disapproved plans re-examined and reported on	204
Total number of plans reported upon	863
Amendments to such plans examined and reported on	362
Buildings included in such plans and amendments	2,773
Buildings reported begun	933
Buildings reported finished	1,084
Buildings reported in course of construction	4,593
Buildings reported projected at date (in addition)	2,055
Buildings reported containing plumbing at date	3,180
Number of violations of plumbing law issued	266
Buildings included in such violation notices	569
Violations reported removed	302
Buildings included in such removed violations	614
Violation cases referred to the Attorney	132
Inspections under the plumbing law	16,543

Light and Ventilation of New Tenement-houses.

Plans and specifications filed and reported on	333
Tenements included in such plans and specifications	195
Tabled and disapproved plans re-examined and reported on	86
Total number of plans reported on	419
Amendments to such plans examined and reported on	108
Tenements included in such plans and amendments	876
Tenements reported begun	360
Tenements reported finished	385
Tenements reported in course of construction at date	1,955
Tenements projected at date (in addition)	716
Notices of violation of tenement-house law issued	180
Tenements included in such notices	211
Violations reported removed	121
Tenements included in removed violations	200
Violation cases referred to the Attorney	166
Inspections under the Tenement-house Law	4,089
Inspections under the Tenement-house Law (of lodging-houses)	11

Old Buildings.

Number of inspections	4

Recapitulation.

Number of plans filed	992
Total number of original plans, amendments, tabled and disapproved plans re-examined and reported on	1,934
Total number of violations of law removed, covering 477 houses	449

Total number of complaints, including violations of houses, and plumbing laws, covering 477 houses	446
Total number of all inspections and reinspections	20,646

Respectfully submitted,

CYRUS EDSON, M. D., Sanitary Superintendent.

HEALTH DEPARTMENT—CITY OF NEW YORK,
DIVISION OF CONTAGIOUS DISEASES,
December 31, 1892.

CYRUS EDSON, M. D., *Sanitary Superintendent:*

SIR—I have the honor to present the following report of the organization and work of this Division for the year 1892. The organization of the Division remained the same as during the latter part of the previous year, comprising:

The Medical Sanitary Inspectors' Corps.
The Inspector of Schools and Institutions with Children.
The Vaccinating Corps.
The Summer Corps.
The Disinfecting Corps, and
The Veterinarian.

The Medical Sanitary Inspectors' Corps consisted of eight physicians. The city was divided in seven districts, as follows:

From the Battery to West Fourteenth street, west of Broadway, in charge of Medical Sanitary Inspector Dr. Alonzo Blauvelt.

From West Fourteenth street to West Eighty-second street, west of Broadway and Fifth avenue, in charge of Medical Sanitary Inspector Dr. Charles S. Benedict.

From West Eighty-second street to Yonkers, west of Fifth avenue and Jerome avenue, in charge of Medical Sanitary Inspector Dr. John Parsons.

From the Battery to East Houston street, east of Broadway, in charge of Medical Sanitary Inspector Dr. A. H. Doty.

From East Houston street to East Forty-second street, east of Broadway and Fifth avenue, in charge of Medical Sanitary Inspector Dr. Samuel P. Cropper.

From East Forty-second street to East Ninety-second street, east of Fifth avenue, in charge of Medical Sanitary Inspector Dr. F. H. Dillingham.

From East Ninety-second street to the city line, east of Fifth avenue and Jerome avenue, in charge of Medical Sanitary Inspector Dr. William J. O'Byrne.

Their duties were to visit the houses in their district where cases of contagious diseases were reported, and further to investigate and report upon other diseases, not specifically classed as contagious. These were cerebro-spinal meningitis, malarial fever, croup, dysentery, tubercular meningitis, phthisis, tabes mesenterica, erysipelas, etc. Secure as perfect isolation as possible, notify all the occupants of the house of the existence of the disease, and ascertain whether there

were any other cases of sickness in the house. Incidentally, they were required to forward notifications to the principals of all schools, of children who had been exposed to contagious diseases, upon postal cards prepared for the purpose. By a rule of the Board of Education, no such child could be readmitted to the school without presenting to the principal a certificate from this Division that it was safe to readmit the child. This certificate was never issued until a specified time had elapsed after the recovery or death, and the premises had been fumigated and disinfected by a member of our Disinfecting Corps. A list of all children and their residences was daily furnished to the Board of Education, where any case of contagious disease had existed, that it might also notify the various principals of the names and location of such cases. The various fresh-air charities sending children to the country in the summer were also notified from this office of names of children with their addresses who had been exposed to contagious diseases, that the spread of infectious diseases might thus be prevented.

When a case of contagious disease was found in an apartment where business of any kind was conducted, it was removed to one of the Department hospitals, or the business was stopped until the case had terminated and disinfection had been thoroughly performed.

When in a building, part of which is used for a school or church, the alternative of permitting removal of the case to a hospital of the Department or of closing the school or church until the disease has terminated, is offered those in charge.

They made a daily report to the Chief Inspector of the houses where contagious diseases exist, which were referred to the Chief Sanitary Inspector for examination as to any sanitary defects.

Their duties in addition consisted in diagnosing all suspicious cases reported and desiring admission to one of the hospitals of the Department. For this purpose there was a regular apportionment of days, each of the Inspectors being on duty for twenty-four hours. The regular district work was carried on daily, Medical Sanitary Inspector Dr. Edward J. Aspell being especially detailed to attend the district work during the absence of the Sanitary Inspector on duty as diagnostician.

The result of the work of the Medical Sanitary Inspection for the year 1892 was as follows :

Contagious Diseases Reported and Referred to Inspectors.

Typhus fever	241
Typhoid fever	1,140
Scarlet fever	7,048
Measles	12,780
Diphtheria	4,654
Small-pox	378
Cerebro-spinal meningitis	87
Cholera	9
Total	26,337

Other Diseases Reported and Referred to Inspectors.

Varicella	563
Malarial fever	54

Croup	530
Dysentery	1
Tubercular meningitis	393
Phthisis	4,008
Tabes mesenterica	5
Parotitis	21
Erysipelas	53
Leprosy	3
Total	5,631

Detail of Work Performed by the Medical Sanitary Inspectors.

Number of cases visited	26,795
Number of houses inspected	30,687
Number of inspections of tenements	25,913
Number of inspections of private houses	1,660
Number of inspections of schools and institutions	1,681
Number of inspections of hotels	133
Number of miscellaneous inspections	1,300
Number of visits to physicians and undertakers to secure observance of sections of the Sanitary Code relating to contagious diseases	294
Number of special diagnoses made	6,346
Number of school notices sent	14,231
Number of visits to Central Office	2,108
Reports forwarded to Sanitary Superintendent by Chief Inspector	1,756

Medical Sanitary Inspector Dr. Moreau Morris is especially charged with the care of the sanitary condition of the schools and institutions for children. He made frequent inspections of these and reported the unsanitary conditions which were found.

When cases of contagious diseases are reported in the same, investigation is carefully made, and segregation and isolation is enforced.

VACCINATING CORPS.

The permanent corps of Vaccinators (authorized by an act of the Legislature in 1874), of eight physicians, was continued with additions from time to time of temporary vaccinators. The city was divided into districts, one being assigned to each. This work varied somewhat during the year, in accordance with the seasons, but was augmented owing to the introduction of cases of small-pox into the city during the month of January, and the continuance of the same throughout the year.

In the detail of vaccination duty, several of the regular corps were especially assigned to school and institution vaccination, while the remainder did house-to-house vaccination in their respective districts. This work not only involved the performance of the operation of vaccination, but also required a revisit and examination of the arms at the expiration of a week to see whether the results were successful. If not, those proving abortive at the first trial were revaccinated,

especially in all primary instances. A careful record of all this work, by date, name and residence, was required of each member of the corps, to be reported upon proper blanks to this office semi-weekly.

The method of performing the operation of vaccination is of special interest and has been adopted in this division as the best that has yet been devised for this purpose. By this system, the great objection to vaccination theretofore presented has been entirely overcome. First, only pure, carefully selected bovine vaccine virus is ever used. Second, the use only of new needles is allowed, a new (No. 5) needle being used for each operation, with a freshly-charged quill for each. In this way all sources of contamination are absolutely avoided.

Each person being vaccinated with a new needle and a fresh quill point, both of which are at once destroyed, obviates any possibility of infection from using soiled instruments, or blood contamination.

Each Vaccinator is provided with packages of new needles and sufficient freshly-charged quills from the office for daily use.

A Medical Sanitary Inspector is detailed for duty at the Central Office throughout the year, to vaccinate all those applying for it. During the months of April, May and September the number was so largely increased that the services of three of the Medical Sanitary Inspectors were needed to perform the work.

As a part of this subject, I wish to call attention to the so-called raspberry-fungus or non-protective hemorrhagic vaccination. Many of those who have not carefully studied the nature of this peculiar development, suppose that it affords the same protection as a typical or perfect vaccination. Such, however, is not the case.

History.

While much has been written on the subject of spurious vaccination, so far as I know, no description of this variety of it sufficiently full and exact for its recognition has yet appeared. All the literature to which I have had access clearly refers to spurious vaccination resulting from inoculation made directly from one subject to the other, that is from arm to arm, and not such as in the product of the kine-pock reproduced from bovine sources. It is singular that such a product should be developed in the human subject from virus taken from a healthy animal in which was reproduced a typical vaccina with well-developed vesicles filled with lymph, and to all appearances possessing the same activity as that with which the animal was vaccinated.

Whatever the primary cause that changes the nature of the vesicle and its contents from a lymph to a blood product may be, the ultimate result is a pathological condition. Two theories accounting for this change have been presented :

First—That the change is owing to the absence from the system of the person vaccinated of that element, condition, or substance, or both, which is essential to a proper development of vaccine germs, or what is commonly called non-susceptibility.

Second—That the germs of the virus used have non-sufficient vitality, so that after a certain period of activity, growth ceases.

That the first of these is untenable, may be readily shown. If the wall of the hemorrhagic vesicle be torn or scratched so that the blood can escape, and fresh active bovine virus be applied to the wounded surface, a perfect lymph vesicle, areola, scab and cicatrix may be developed.

The second hypothesis is quite well borne out by the phenomena which present themselves while the vesicles are developing. The vaccination apparently runs the same course as a perfect one would do up to the time that the vesicle should be filled with lymph, that is for three or four days after the inoculation with bovine virus ; there is an increasing pink blush under the point of scarified surface, which surface becomes slightly elevated above the surrounding skin, and which, if each point of vaccination could be isolated, would mark the papular stage of the development.

Between the fifth and eighth day, when the epidermis has been elevated into vesicles with a cellular structure, the change characteristic of this variety of vaccination occurs, blood escapes from the capillaries in the papillary layer of the skin, which gradually fills the vesicles to distention.

These vesicles, by the coalescing of their sides, usually develop in a mass with a central depression or umbiiication, which is not as marked as in a perfect vaccination. The after course of these hemorrhagic bullæ is that of an ordinary blood-blister produced by violence. The fluid portion is absorbed or evaporated, the solid dries, and falls off without making any permanent change in the dermal layers. That they are non-protective against variola is shown :

First—By the complete absence of the constitutional disturbance indurated areola, and the pitted cicatrix, resulting from lymph vesicles.

Second—That revaccination performed after the development of this variety of spurious vaccination is successful.

Third—When revaccination under this condition has been refused, the person has developed small-pox on being exposed to that grave malady.

Anatomical Appearances.

The appearances presented for three or four days at the surface of inoculation are those attending an ordinary vaccination, then they differ materially ; the change in appearance may be delayed to the seventh or eighth day or even longer. Usually on the third or fourth day a well-marked rose-blush tint is present at the scarified spot, which is slightly elevated above the surface of the surrounding tissue.

The vesicle now begins to form. Instead, however, of filling with lymph as it usually does, an exudation of blood takes place, which elevates the epithelial layer of the skin and distends it much more than a perfect vaccine vesicle does.

After a period varying from ten days to two or three weeks, during which time the vesicle shrivels and dries up, it falls off without in any way destroying or disfiguring the skin on which it was developed, leaving only a slight reddish-brown discoloration, which soon fades away.

Symptoms.

There is absolute freedom from constitutional disturbance and, beyond a certain degree of itching and sometimes slight redness around the vesicle, due to the irritation caused by scratching, no inconvenience whatsoever. A true areola never accompanies a non-protective hemorrhagic vaccination.

Sometimes a perfect vaccinia lymph vesicle is converted into the hemorrhagic form, but the constitutional disturbances, the painfully swollen arm, and final ulceration accompanying it, will serve to distinguish the true from the spurious vaccination.

Treatment.

If left to itself, the non-protective hemorrhagic vesicle will terminate in the way already described. The application of tinct. iodinum will hasten desiccation and desquamation.

Medical Sanitary Inspector Dr. Edward L. Parrish was specially charged with the care of the Vaccine Laboratory provided by the Department for the cultivation and propagation of pure bovine virus. For this purpose carefully selected young cattle, after being thoroughly examined by the Veterinarian as to their soundness and freedom from disease, were vaccinated by the Medical Sanitary Inspector in charge, and, after the expiration of the proper time of vesicular development, quills, ivory points, and glass tubes, specially provided, were charged with bovine virus and provided for the use of the corps of vaccinators, also for distribution for gratuitous vaccination by physicians not connected with the Department, and for public sale.

The following is a detailed statement of the amount of vaccine virus produced at the laboratory connected with the Division, and its distribution during the past year:

Production.

Animals vaccinated	158
Animals returned to contractors	158
Good	114
Fair	13
Imperfect	23
Failed	8
Quill slips collected	247,200
Ivory points collected	30,850
Tubes	355
On hand January 1, 1892, points	6,300
Total points	284,250

General Distribution.

Used by Vaccinators	132,416
For office vaccinations	21,573
Gratuitous	30,247
From cash sales	36,967
From credit sales	25,822
Returned and washed points	24,625
On hand January 1, 1893, points	5,600
Total points	284,250
Number of primary vaccinations performed	41,778
Number of revaccinations performed	98,027
Total	139,805
Certificates of vaccination issued	50,918

In compliance with section 154 of the Consolidation Act the amount of bovine vaccine virus collected at the Vaccine Laboratory in excess of the amount required by the Department was sold, and three thousand eight hundred and fifty-six dollars and twenty-seven cents ($3,856.27) was received and deposited with the City Chamberlain.

The Summer Corps.

This corps, under the charge of Medical Sanitary Inspector Dr. Moreau Morris, began its work the first of July, and continued it during the months of July, August and the first week of September.

For this work the tenement-house portions of the city were divided into fifty districts. Fifty medical men temporarily appointed for this service were assigned, one to each district.

The duties prescribed for the members of this corps were to visit every domicile in each tenement-house in his district, selecting such, as far as practicable, where the poorest classes reside. Sick children were sought out, and, if without medical attendance, prescribed for, and medical and sanitary advice given. Their further duties were also to observe all unsanitary domiciliary conditions immediately surrounding and having a bearing upon the general health, to cause the removal or abatement of such minor but equally important nuisances from the premises, by personal appeals, or, if not successful in these persuasive efforts and the nuisances being of an aggravated character, to report the facts to the chief officer for further official action. The results of this work are exhibited as follows:

Number of visits to houses	40,193
Number of visits to families therein	348,318
Number of revisits to patients under treatment	3,177
Total of visits and revisits	351,495

Number of Sick treated for the following Diseases:

Diarrhœal	14,170
Dysenteric	137
Respiratory	3,135
Contagious	494
Miscellaneous	5,880
Making a total of cases treated of	23,816

Circulars for care of infants distributed	60,304
St. John's Guild tickets for Floating Hospital distributed	17,812
Nuisances abated by personal effort	7,917
Complaints of nuisances forwarded to Sanitary Superintendent	270
Patients of other physicans found under treatment	6,642
Prescriptions written at Central Office	882
Prescriptions filled at Central Office	882

The Disinfecting Corps.

Disinfectors detailed for "ambulance duty."

Four of this corps were detailed to remove those ill or dead with contagious diseases to the hospitals or morgue, under the charge of the Health Department :

Bartholomew J. McGowan.	William Reynolds.
Thomas D. Yates.	William Cooney.

Two were required to be on duty for twenty-four hours consecutively. This arrangement practically kept two on and two off duty for each twenty-four hours.

Upon the receipt of the report of the Medical Sanitary Inspector, acting as Diagnostician, ordering a case or body to the hospital or morgue, he removed the case or body, and thoroughly disinfected and fumigated the premises.

After the patient was received in the hospital, the vehicle (ambulance or coupé) was thoroughly disinfected and fumigated before leaving the hospital grounds, after which he returned to the stable for further orders.

The following is the summary of the work performed by the Disinfectors detailed for ambulance duty :

Number of patients removed to hospital on account of contagious diseases	1,459
Number of dead bodies removed to morgue	49

For the further purpose of disinfection and fumigation, the city was divided into nine districts, and one member of this corps assigned to each.

Every family in which a case of death from a contagious disease occurred was visited by the Disinfector in charge of that district. Disinfectants were left, and instructions how to use them given to the person or persons in charge of the case. A printed circular on the subject of disinfection was also given.

After the termination of cases of contagious diseases the rooms that had been occupied by the patient were disinfected and fumigated by means of sulphur dioxide in the proportion of there and one-half pounds to one thousand cubic feet of air space.

On September 12 nine of the Special Medical Sanitary Inspectors of this division were detailed to act as Medical Disinfectors, the lay members of the corps acting as their assistants and working under their direct supervision.

Other work of disinfection, as fires, where offensive conditions required such measures in the disinfection of dead bodies of persons or animals, was performed as emergencies required.

The summary of the work performed by these members of the Disinfecting Corps during the past year is as follows :

Number of visits to infected houses for purposes of disinfection and fumigation	29,143
Number of infected rooms fumigated after occurrence in them of contagious diseases	30,595
Number of infected and contagious rooms for which disinfectants have been distributed by Disinfectors	77,636

Two of the lay Disinfectors were specially detailed to the work of removing infected bodies, clothing or goods from infected premises to the disinfecting depot and crematory at the foot of East Sixteenth street. Their duty was to perform the work of removal and to disinfect or cremate all infected articles brought to the depot as the occasion required.

Number of pieces of infected goods removed by Disinfectors	46,866
Number of pieces of infected goods brought to disinfecting station by owners	503
Total	47,369

Number of pieces of infected goods returned to owners after disinfection	29,344
Number of pieces of goods destroyed by cremation	17,931
Number of pieces of goods disinfected and to be returned	94
Total	47,369

THE VETERINARIAN.

The Veterinarian visited the slaughter-houses of the city and inspected many animals before and after they were killed. He had also to inspect the stock yards and the animals contained in them. The object of the work is to prevent the consumption of meat from animals that are sick at the time of slaughter.

A section of the Sanitary Code compels persons who are called to treat cases of glanders or farcy to report them to the Health Department. A number of such reports were received during the year and referred to the Veterinarian, who caused the destruction of horses afflicted with glanders and the disinfection of the premises in which they were at the time of the disease.

He also examined all cattle to be used for cultivating bovine virus, and after their use for this purpose made a post-mortem examination, assuring their healthy condition. The result of his work during the year was as follows:

Number of cases of contagious disease visited	922
Number of cattle examined	32,748
Number of glandrous horses destroyed	227
Number of post-mortems made on cattle	159

Respectfully submitted,

CHARLES F. ROBERTS, M. D., Chief Inspector.

SUPPLEMENT "A."

REPORT OF CHOLERA IN NEW YORK IN 1892.

HEALTH DEPARTMENT—CITY OF NEW YORK,
DIVISION OF CONTAGIOUS DISEASES,
December 31, 1892.

CYRUS EDSON, M. D., *Sanitary Superintendent:*

SIR—I have the honor to submit the following report respecting the cases of "Cholera Asiatica" that have occurred in the City of New York for the year ending December 31, 1892.

The fact that an epidemic of cholera had occurred in Russia, and that it was slowly making its way through Western Europe, together with the report of its development in other portions of the Continent, made it necessary for all interested in the preservation of the health of our city to be on the alert for the appearance of this disease in our midst.

The first case reported in this city was brought to the notice of the Board in the evening of September 5, and was followed during the month by nine other cases.

The clinical histories of these patients, the investigation of the source of the disease, the sanitary surroundings in every case, and the measures adopted to limit the spread of the disease form the subdivisions of this report.

Clinical Histories.

Case I.

Charles McAvoy, reported September 5, aged 32 years, born in Ireland, eight years in the United States, employed as a plasterer's helper, residing on the third floor of No. 875 Tenth avenue, a five-story brown-stone tenement, occupied by ten families, with a census of 58 persons.

Since January first of this year he had been indulging in alcoholic stimulants to great excess, intoxicated a greater part of the time, and unable to work on that account.

About three weeks prior to the beginning of this attack he had discontinued the use of stimulants, and had been steadily and constantly at work as a hod carrier, but during this time he seemed to be suffering from lack of the stimulation in which he had ordinarily indulged.

For a day or two previous to September 5, 1892, he had a slight, painless diarrhœa, which, however, did not prevent him from working, but on that night the diarrhœa increased. He returned from his work, ate a hurried supper, and was heard frequently going to the water-closet, the diarrhœa evidently having increased in severity.

The following morning he arose feeling very weak, but went to his work as usual; he returned home about ten o'clock with a very violent diarrhœa, muscular debility and tremors. At 2.30 P. M. Dr. Robert Deshon was called to attend him. During the afternoon he vomited once, but after two o'clock had no diarrhœa.

He complained constantly of the severity of the cramps in his abdomen and limbs; his axillary temperature was 100½ degrees Fahrenheit.

Dr. Deshon again saw him at half-past eight o'clock in the evening, when his axillary temperature was 97½ degrees Fahrenheit. He then presented all the symptoms of collapse.

Dr. Henry F. Robinson was called in consultation at 9.15 P. M. At that time he was in a state of stupor and died at 9.30 P. M.

The case was reported to the Health Department on September 5, at 9.25 P. M., and was immediately visited by Medical Sanitary Inspector Blauvelt and a specimen of the discharges procured for bacteriological examination. The body was placed in a metallic casket and buried.

Case II.

Peter Callahan, reported September 10, aged 30 years, born in Ireland, four months in the United States, employed as a stableman at the corner of Grand and Cherry streets, residing on the third floor of No. 319 East Forty-seventh street, a brick tenement of four stories, occupied by nine families, with a census of forty-two persons.

Since arrival in this country the patient had not been in good health, and at times was unable to follow his occupation.

On the night of Monday, September 5, he was attacked with diarrhœa, vomiting and cramps in his limbs, and during the night had four watery discharges. On Tuesday the vomiting and diarrhœa were much more frequent, probably ten to twelve times during the day.

Both the vomitus and fecal discharges were of a thin, yellowish character, very offensive and copious.

At noon the following day, i. e., Wednesday, September 7, there was complete cessation of the symptoms mentioned, but entire suppression of the urine occurred.

On Thursday, September 8, there was no return of the vomiting or cramps, but suppression of the urine still continued.

On Friday, September 9, the situation was unchanged, and he died on Saturday, at 8 A. M.

He was attended by Dr. Burton, of No. 223 East Forty-eighth street, and Dr. Gillespie, of No. 319 East Fifty-fifth street.

The case was reported to the Health Department and was visited by Medical Sanitary Inspector Doty, who reported the case to this Division as suspicious of "Cholera Asiatica." The premises were thoroughly disinfected by the Health Department. The body was placed in a metallic casket and buried.

Cases III. and IV.

William Wiegmann, aged 52 years, born in Germany, thirty years in the United States, employed as a gut cleaner; and Sophia Wiegmann (his wife), aged 63 years, also born in Germany, thirty-two years in the United States, both residing on the fourth floor of No. 768 Eleventh avenue, a four-story brick tenement, occupied by four families, with a census of sixteen persons. (Reported Sunday, September 11, at 10.45 A. M.)

William Wiegmann was taken ill September 3 with vomiting and diarrhœa. The following day, being somewhat improved in health, he went to Athenia, near Paterson, N. J., for a visit. He there grew worse and returned to this city September 6, when he was attended by Dr. Fruitnight, of No. 161 West Fifty-seventh street, but the diarrhœa continued and he died on September 10 at 5 A. M.

Sophia Wiegmann, his wife, was taken ill on the night of the 10th of September, the day on which her husband died, with watery diarrhœa and vomiting, and during the night she had frequent movements, each being of rice-water appearance and consistency. Dr. Fruitnight was called in the morning and found her in a state of collapse. He called Dr. J. Lewis Smith and Dr. Charles E. Young in consultation, and they, regarding the case as suspicious of "Asiatic Cholera," notified the Health Department.

During the afternoon she rallied a little in response to the treatment, but only for a short time, and died on September 11, at 4 P. M.

The cases were visited by Medical Sanitary Inspector Dillingham, who procured specimens of the fecal discharges and forwarded them to the bacteriological laboratory for investigation.

Both bodies were subsequently removed to the Reception Hospital, at the foot of East Sixteenth street, and subjected to post-mortem examinations, and additional specimens for bacteriological research were obtained. The bodies were placed in metallic caskets and buried.

Case V.

Minnie Levinger, reported on September 11, aged 20 months, born in the United States, residing on the third floor of No. 411 East Forty-sixth street, a four-story brick tenement, occupied by ten families, with a census of forty-one persons.

On Saturday, September 10, Minnie Levinger, from being apparently in her usual good health, was taken ill, at 8 P. M., with profuse vomiting and watery diarrhœa, and was attended by Dr. Hasslock, of No. 932 Second avenue, at 10 P. M. She died at 4 A. M. on September 11.

The body was removed to the Reception Hospital, where, after a post-mortem examination, it was placed in a metallic casket and buried.

Cases VI. and VII.

Charlotte Beck, aged 31 years, born in Germany, thirty years in the United States, and Charles Beck (her husband), aged 35 years, born in Germany, thirty years in the United States, marketman, both residing on the top floor of No. 1764 Second avenue, a five-story brick tenement, occupied by twenty families, with a census of forty-five persons. (Reported September 13, at 8 A. M.)

The first-mentioned case was visited by Medical Sanitary Inspector Doty, and the following clinical history obtained:

She was attacked at 7 P. M., September 12, with profuse diarrhœal discharges and vomiting, followed at 11 P. M. by severe cramps of limbs and abdomen. This condition lasted the entire night, and in the morning Dr. E. Vandergoltz, of No. 193 Second avenue, attended her. She died at 1.05 P. M.

The body was removed to the Reception Hospital, and, after a post-mortem examination had been made, and specimens for bacteriological research obtained, was placed in a metallic casket and buried.

In the investigation of this case by the Medical Sanitary Inspectors of the Department, it was ascertained that Charles Beck, on the night of September 5, drank freely of lager beer and whiskey, and ate cold meats and salad, to celebrate a birthday anniversary.

About 6 P. M. of that day he was seized with a painless diarrhœa, and between that hour and 5 A. M. the next morning had five or six watery movements. He went to his work as usual, but vomited freely during the morning and returned to his home at 2 P. M. From Tuesday afternoon till Friday night he suffered constantly with profuse watery discharges from the bowels and with vomiting, had cramps in the limbs and abdomen, was extremely prostrated and unable to work. On Saturday he was much improved, and on Sunday seemed to have entirely recovered, but was still very weak. He was attended during his illness constantly and assiduously by his wife.

Case VIII.

John Knox, reported on September 18, at 7 P. M., aged 41 years, born in Ireland, a fireman on the Allan Line Steamer "State of Nevada," lying at the foot of West Twenty-first street. She sailed from Glasgow on September 3, 1892, cleared Quarantine September 17, had 55 immigrants, 107 second-class and 115 first-class passengers, all Irish and Scotch.

The patient had been on the ship all summer, had not been ill on the voyage, went ashore on September 17 about 7 P. M., returning at 9 P. M., was taken ill at 4.30 A. M., September 18, with diarrhœa, slight vomiting and cramps in limbs and abdomen, and was attended by Dr. Russell,

the ship's surgeon. He had four watery fecal discharges from 8 to 12 A. M. when the diarrhœa and vomiting ceased. He died at 7.30 P. M.

The body was wrapped in sheets, saturated in bi-chloride solution, placed in a coffin and taken to the Reception Hospital at the foot of East Sixteenth street, where a post-mortem examination was made and specimens for bacteriological investigation obtained.

The body was placed in a metallic casket and buried.

Case IX.

Louis Weinhagen, reported September 19, at 5 P. M., aged 33 years, born in Germany, seven years in the United States, coachman by occupation, residing on the second floor of the rear house at No. 14 First street.

He came from Bay Shore, Long Island, on September 8, where he had been living during the summer, in the employ of Mr. Schlemmer, and since his return to the city had been unemployed.

He had been suffering two or three days with diarrhœa, vomiting, cramps in abdomen and limbs, but was not confined to his bed until the morning of September 18.

He was not attended by a physician, but the case was reported to the Health Department by the occupants of the premises and was visited by Medical Sanitary Inspector Benedict, who ordered his immediate removal to the Reception Hospital, where he was treated.

He died September 23, at 6 A. M.

A post-mortem examination was made and specimens procured for bacteriological research. The body was placed in a metallic casket and buried.

Case X.

Joseph Miller, reported September 29, at 4 A. M., aged 47 years, born in Germany, ten years in the United States, marketman by occupation, residing on the first floor of No. 255 West Twenty-ninth street.

The patient was attacked at 6 P. M. on September 28 with watery discharges, the first colored brown and the rest rice water in character; there was no pain in the abdomen, but there were cramps in the legs; he was not attended by a physician.

He died in a state of collapse, on September 29, at 2.30 P. M.

The body was removed to the Reception Hospital, post-mortem examination performed, and specimens taken for bacteriological research. The body was placed in a metallic casket and buried.

RESULT OF SANITARY INSPECTION OF PREMISES WHERE CHOLERA EXISTED.

The sanitary condition of the premises as regards plumbing, etc., was thoroughly investigated by the lay Sanitary Inspectors, with the following results:

Case I.

No. 879 Tenth avenue—The following sanitary defects were found: Water-closets and traps of sinks and bath-tubs were faulty, and water-closet on top floor was not properly flushed.

An order of the Health Department was made on the owner of the premises to have these defects remedied.

Case II.

No. 318 East Forty-seventh street—No sanitary defects were found at premises.

Cases III. and IV.

No. 768 Eleventh avenue—No sanitary defects were found.

Case V.

No. 411 East Forty-sixth street—No sanitary defects were found.

Cases VI. and VII.

No. 1764 Second avenue—No sanitary defects were found.

Case VIII.

Steamship "State of Nevada" was found in good sanitary condition.

Case IX.

No. 14 First street—Sanitary defects were found in regard to some of the waste-pipes and water-closets in the house, and an order from the Department was made rectifying the same, and that the walls and ceilings be cleaned and whitewashed.

Case X.

No. 225 West Twenty-ninth street—No sanitary defects were found.

STUDY OF ÆTIOLOGY.

Case I.

Charles McAvoy, No. 879 Tenth avenue.

McAvoy was an unmarried man and lived with Mrs. Ellen McCarthy, with whom there were also boarding the following:

Mary McCarthy, living at home.

Patrick Conroy, employed in the stable at No. 36 West Fifty-seventh street.

Ellen Duffy, employed during the day in housework for Mrs. McCarthy.

Thomas McGuire, bartender in the saloon at the corner of West Forty-ninth street and Tenth avenue.

Thomas Currie, Inspector of Sewers.

William Burns, carpenter.

Owen McPhillips, plasterer.

Patrick Holland, clerk in butter store on the east side of Tenth avenue, between Fifty-third and Fifty-fourth streets.

Thorough investigation has failed to show any illness among the above-mentioned persons living in that family.

For some weeks before the attack of cholera, McAvoy had been in the employ of Michael Power, a boss plasterer, and had been engaged in carrying mortar on the tenth floor of Havemeyer's building, corner of Cortlandt and Church streets.

Since the time he had discontinued the use of alcoholic stimulants he had remained home at evenings and Sundays.

Mrs. McCarthy received no visitors, and careful investigation failed to show any contact with persons, baggage, or goods of any kind from an infected source.

McAvoy ate breakfast and dinner at home and carried for his noon meal a lunch consisting of bread and cold meat, which was prepared at home.

According to the statement of some of his fellow-workmen, he was in the habit of visiting a saloon at the corner of Cortlandt and Church streets for beer and free lunch.

Case II.

Peter Callahan lived with his sister, Mrs. McCallan, at No. 318 East Forty-seventh street. The family consisted of the following six persons:

Peter Callahan, helper in stable.

Mrs. McCallan, housewife.

Ann McCallan, Mary McCallan and John McCallan, children, attending the Cathedral school but at the time of illness at home for vacation.

James Callahan, who had been an employee of the brewery on East Forty-seventh street, but at the time of the illness was idle.

The family ate all their meals at home, with the exception of the patient, who took to his work a lunch prepared at home.

The family made and received no visits, and careful investigation failed to trace any connection with foreign persons or goods. No one in the family or house, with the exception of the patient, has been ill since August.

Callahan was engaged as helper in the car stable at the foot of Cherry street, near the East river, for three weeks previous to his sickness. His work was irregular—some days having several hours' employment, other days none. His duty was to sift sand, carry tracks, and do other laborer's work.

No immigrants have been or are employed in the stable, and no cases of diarrhœal disease have been known to exist among the regular employees there for the last two months.

Cases III. and IV.

William and Sophia Wiegmann, of No. 768 Eleventh avenue.

The family consisted of the following six persons:

William Wiegmann, employed in Enser's tripe factory in cleaning the entrails and preparing pigs' feet for pickle.

Sophia Wiegmann, employed at home as housewife.

William Wiegmann, Jr., employed in Decker's piano factory, in West Thirty-fifth street, near Eighth avenue, until a few days prior to his father's death.

Henry Wiegmann, employed in Steck's piano factory, in West Forty-eighth street, near Tenth avenue.

Frank Wiegmann, employed in Bent's piano factory, in West Fifty-second street.

Dora Wiegmann, busy at home helping her mother.

William Wiegmann went to his work about 4 A. M., came home at 7 A. M. to his breakfast, which he ate apart from the rest of the family, again for his dinner at noon, and at about 7 P. M. for his supper, another meal at which he was usually alone. He sometimes drank beer, but was never intoxicated.

The entire family ate at home, except the oldest son, who took a lunch prepared at home.

The patient's habits are said to have been cleanly; he always removed the clothing that he wore while engaged in his work and came home in a clean suit; he never ate any raw meat, but always insisted on having it well done.

He had made no visits and received none for a couple of months before his illness, and no goods from a distance had come to the house, and in general no contact with person or baggage from an infected source could be discovered.

William Wiegmann and his wife went to Paterson by train, reaching there about noon Saturday, September 3, and walked the three miles to Windhorst's house in Athenia. There they both stayed, with one exception, till the afternoon of the next day, when they walked back to Paterson and took the 5.45 train to New York. The exception referred to is, that Wiegmann took a walk Saturday of about a mile to see the neighborhood, but did not make any calls. Wiegmann's bowels were somewhat loose, but whenever need pressed he went out to the privy and did not have any stools in the house.

The Windhorst family consists of father, mother, son and daughter. They occupy the whole of a two-story wooden house, situated in the middle of a four-acre lot. They have had no servant and have not had any visitors except the Wiegmanns. During the summer, too, they made no visits, all, men and women, being busily engaged on the place in market gardening. The produce was driven in three times a week by the son and carried to dealer. There is only one house close by, and that is about 300 feet away, but there is some intercourse between the families. It was learned, however, that this neighbor's family consisted during September of four persons, father, mother, baby and servant. All these had lived there for months, and there were no lodgers or visitors. This family also was busy in market gardening. There has been no illness in either family, and none in the neighborhood. The Windhorsts do not know any persons who have recently come from Europe. They keep a cow and raise much of their own food.

The market gardeners through that part of Athenia are mostly Germans, and are in the habit of employing help, whenever necessary, for from a week to a month at a time, and get this help from some intelligence office on Greenwich or Washington street, New York. The men and women who go out as help are usually Germans or Poles, and frequently freshly-arrived immigrants.

Dr. Leal, Chief Inspector of the Paterson Board of Health, says that no deaths from suspicious diarrhœal troubles came to his knowledge, either in Paterson or adjacent districts, during September. There are two slaughter-houses there which do a small business in killing hogs and sheep, but not cattle. There is a colony of Poles (some Jews) on one of the streets in the city, and among them are frequently recent immigrants. Dr. Leal says that the State Board of Health sent word that three immigrants from infected ships left Quarantine with Paterson for their destination. He did his best to find them, but failed, and thinks they probably did not come to Paterson.

At the news of Wiegmann's death, the Health Board quarantined Windhorst's house and disinfected it, paying special attention to the privy. The Board did the same to the house of Mrs. Van Doehl, who attended the funeral of the Wiegmanns. Mrs. Van Doehl is the daughter of Mrs. Windhorst, and lives about a mile away from her in Athenia.

At the time of Wiegmann's visit there was a large pile of manure freshly deposited in the yard back of the house. This was brought on a canal-boat (the yard borders on the Morris and Essex Canal) and was obtained from Thomas Daw, of No. 314 West Fortieth street, New York, who makes

a business of supplying manure. There is a rumor, which has been denied, that this manure contained offal from New York slaughter-houses.

The Paterson Health Board knows of only one recent immigrant who visited near the Windhorsts'. This person was a woman who came over in the "Van Dam," and spent some time at a house a mile away from the Windhorsts'. No connection was traced between the houses.

Case V.

Minnie Levinger, No. 411 East Forty-sixth street.

The family consists of the following eight persons:

The father, Adolph Levinger, employed in a slaughter-house.

The mother, Lena Levinger, employed at home as housewife.

The oldest daughter, a domestic employed on Seventy-second street, but not at home for two weeks before the child's illness.

Fred. Levinger and Benjamin Levinger, in East Forty-second Street Grammar School.

John Levinger and Joe Levinger, in the East Forty-sixth Street Primary School.

Minnie Levinger, the patient, weaned at eight months, and eating everything at the family table.

Levinger was employed by Schwarzchild & Sulzberger in sweeping the blood running from the cut throats of slaughtered animals along a gutter to a pipe which discharges into a box in the cellar. This work did not require him to touch the meat of the animals. He reported in the morning for duty at the time the killing began, from two to six o'clock, and worked until the killing was over for the day. He came home for all meals, and washed his hands and face before coming home. While at work he wore a special blouse and trousers, which were changed at night for a clean pair.

An accurate census of all the employees of Schwarzchild & Sulzberger was taken from the books of the house, and all the families were visited by an Inspector. There were 391 in number, consisting of 1,896 persons, and no evidence of diarrhœal disease was found.

He belonged to the E. O. B. R. Lodge, which meets every two weeks at No. 128 Columbia street, and he attended the last meeting eight or ten days before the illness.

He had one brother living in the lower part of the city, but sees him only at the lodge.

Mrs. Levinger had no friends and made no visits.

One possible source of foreign infection was found in this case: On August 25, Mrs. Spitzer, living on the first floor of the same house as Levinger, visited Ellis Island and brought four girls home with her who had come in the steamer "Friesland" from Antwerp. They were to board with her until they could procure situations as servants. Not having sleeping accommodations for all of them, she sent two, Lena and Sarah Kohut, up-stairs with their baggage to Mrs. Levinger, and there these two opened their baggage, lived, ate and slept. They remained there two days, and then left with all their things.

Before crossing the ocean they had been in Vienna and Leitnich, near Hollick. None of the girls and none of the families with whom they subsequently lived have been taken ill.

Levinger's personal habits are good, and he rarely drinks, and never eats raw meat, although he likes his meat rare.

The entire family ate at home, and their food was brought from all the provision and grocery stores in the neighborhood, wherever the prices happened to be low.

They never ate fish, pork, mutton or turnips, and of fruit they ate only apples.

No illness can be traced in the house or among the men who composed the gang with whom Levinger worked.

Cases VI. and VII.

The family consists of the following three persons :

Charles Beck, driver for Pearsall, wholesale butcher, Fulton Market.

Charlotte Beck, employed at home as housewife.

Baby Beck, a minor.

Mr. Beck goes to work at from two to four in the morning, eats breakfast and dinner at the Fulton Market, in saloon under Pearsall's store. He takes supper at home.

He drinks beer regularly, but is never intoxicated.

The birthday party referred to in the clinical history was given by the saloon-keeper Proesbel in the saloon corner of Ninety-second street and Second avenue, and the supper consisted of beer, cold ham and beef, with lobster, chicken and potato salad ; no bologna, no corned beef, no wine and no whiskey.

No one else of those at the party has presented any symptoms of diarrhœal disease.

Case VIII.

The most thorough investigation has failed to find any facts in regard to this case further than those given in the clinical history.

Case IX.

When Weinhagen came from Bay Shore with Mr. Schlemmer's horses, he left them with Merriam, on East Eighty-third street, and thereafter he spent his time at the house on First street, rooming at Room No. 11, on the second floor, with Michael Bauer, and having money enough to support himself, he did not look for work. He did not go out evenings, but was about the house most of the time, and ate there regularly. He was, however, a greedy eater.

The house occupied is one of a group of five houses opening on First street, and also on Extra place. They are leased and conducted as lodging and boarding houses by Mrs. Günther, who lives on the premises with her family, consisting of four persons, and three employees. The total number of lodgers in these premises at the time Weinhagen was attacked was one hundred and eighty-two, although the capacity of the house when all the rooms were occupied was two hundred and twenty-five.

Only male boarders or lodgers are received, who occupy the different rooms in the house.

The first floor of No. 4 Extra place is used as a dining-room in common. The tables there have a seating capacity for about sixty persons at one time. Everything there seemed designed to spread infection, but no one else suffered, and careful investigation failed to show any contact with foreign infection among the persons or baggage of the occupants of the premises.

Case X.

Joseph Miller, No. 255 West Twenty-ninth street.

The family consisted of the following four persons :

Miller, employed in New Market, East One Hundred and Third street and First

Sophia Miller, employed at home as housewife.

Charles Miller and Joe Miller, at Thirtieth Street Grammar School.

Miller went to work between one and two in the morning, breakfasted and lunched in the neighborhood of New Market, probably at the restaurant on east side of First avenue, between One Hundred and Third and One Hundred and Fourth streets, returned home between four and five P. M., and dined at home. His work consisted in selling vegetables and fruit (but no meat) from a sidewalk stand.

Evenings were usually spent at home; but he belonged to the American Legion of Honor, and had attended a meeting of the lodge a week before his illness.

He had one sister in the city, but had not visited her for two months.

His wife, Sophia Miller, visits frequently her brother, at No. 447 West Twenty-eighth street, and occasionally a friend, Boller, on West Seventeenth street, between Ninth and Tenth avenues.

The boys go to Sunday school on West Thirtieth street, between Seventh and Eighth avenues.

No other visits were made by the family, and no visits received.

It is to be noted that all the family except Joseph Miller ate all their meals at home; that Joseph Miller drank beer occasionally, but never to excess, and that he liked his meat well done, and never ate bologna.

Action Taken by the Health Department.

During the months of July and August the following general orders were issued by this Division:

HEALTH DEPARTMENT—CITY OF NEW YORK,
DIVISION OF CONTAGIOUS DISEASES,
July 25, 1892.

To the Medical Sanitary Inspectors and Disinfectors:

The following is the course of action that must be taken by you in case a person is reported ill with Asiatic cholera in this city:

1st. When the report of a case is received the Inspector must obtain and place in a sterilized bottle, capped with tinfoil and inclosed in a tin box, a portion of the discharges of the person suspected or suffering with the disease, and convey it to the Chief Inspector immediately. (Bottles as described can at all times be obtained from the Chemist of the Board.)

2d. As soon as the diagnosis of cholera has been made the patient must be removed to a reception hospital.

3d. Immediate members of family of sick person, and all who dwell on same floor and obtain water from the same source, i. e., faucet or pump in hall, must be segregated and quarantined for observation for a period of not more than fourteen days, and before the quarantine is raised all clothing and effects belonging to them must be disinfected, both by fumigation with sulphurous acid gas and by washing in strong antiseptic solution.

4th. All water-closets, school sinks, etc., must be closed until they have been thoroughly scrubbed with a solution of mercuric chloride (1-500) and the hoppers or other receptacles and pipes flushed freely with a strong antiseptic solution.

5th. Water faucets and basins throughout the house must be scrubbed with strong antiseptic solution, and waste-pipes flushed with the same before further use is permitted.

6th. The apartments used by patient and family, and those living with patient, must be rendered thoroughly aseptic—

(a) By fumigation with sulphur (3 pounds to 1,000 cubic feet).

(b) By thoroughly scrubbing of all woodwork with solution of mercuric chloride (1-500) and ceilings and walls washed with antiseptic solution. After six hours of fumigation rooms must be freely aired and repainted, papered and calcimined or whitewashed.

7th. Textile fabrics, including upholstered furniture, bedding, carpets, etc., must be removed in rubber bags after fumigation to disinfecting station, where they must be subjected to dry or moist heat of 230 degrees Fahrenheit for at least two hours. All articles that cannot thus be treated must be burned. Frames of chairs, beds and tables must be scrubbed with a strong antiseptic solution.

8th. A careful description of every person in the house must be taken, and none allowed to change residence without a permit from the Board of Health until fourteen days after the occurrence of the last case.

9th. The house must be visited at leastt wice daily by the Medical Sanitary Inspector, and all persons carefully examined.

10th. In transporting patients to the hospitals an attendant must be at hand to catch all discharges in a solution of mercuric chloride (1-500). (The bottoms and sides of the ambulances are made water-tight, and hard rubber basins and jars for containing the solution are provided.)

11th. Ambulances and their appurtenances must be made aseptic by fumigation and washing with an antiseptic solution after the removal of each case before entering the city for new cases.

12th. Each ambulance will be provided with two rubber air beds, one of which must be kept at the disinfection station. After the transportation of the case, the bed on which it has been transported must be replaced by the one at the station, and must immediately be made aseptic by washing with antiseptic solution. A sufficient number of blankets will be provided to allow a fresh set for each case. Blankets must be kept at the disinfe .tion station, and must be thoroughly fumigated and subjected to dry heat after being used.

13th. Articles of food and drink coming from the same places as the articles used by the sick should be confiscated under section 42, Sanitary Code.

CHARLES F. ROBERTS, M. D., Chief Inspector.

HEALTH DEPARTMENT—CITY OF NEW YORK,
DIVISION OF CONTAGIOUS DISEASES,
August 10, 1892.

DIRECTIONS FOR CARE OF SUSPECTED PREMISES.

Record the name and age of every person in the house, and the occupation and place of business of every person employed.

Watch for any diarrhœal cases, prescribe for them and keep them in bed or in their rooms.

If there are any diarrhœal cases, have the water-closets disinfected immediately after use, if within premises. If the water-closet is in the yard, have it disinfected twice daily.

Keep every room in the house in the best sanitary condition possible; allow no refuse, garbage, or offensive material to remain in the rooms, halls, cellar or yards.

ery person wash his hands with soap and clean his nails before eating.

e ventilation of all the rooms, especially the bedrooms.

Cause all garbage, vegetable refuse and old bones to be burned in the stove while the fire is brisk.

Allow no family to move from the premises without a special permit from the Chief Inspector.

See that all discharges from bowels and all vomitus of sick persons are received in vessels containing disinfecting fluid, and thoroughly disinfected before they are deposited into water-closets or privy.

Have all soiled bedding, sheets, pillow cases, blankets, handkerchiefs or rags removed at once and put into a pail or tub with disinfecting fluid, boiling hot, and afterwards boiled for half an hour.

See that no drinking vessels and no other vessels used by patients are used without being thoroughly cleansed by boiling soapsuds.

One Inspector must be always on duty at the premises until relieved by his successor.

CHARLES F. ROBERTS, M. D., Chief Inspector.

HEALTH DEPARTMENT—CITY OF NEW YORK,
DIVISION OF CONTAGIOUS DISEASES,
August 12, 1892.

SPECIAL QUARANTINE DIRECTIONS IN CASES OF CHOLERA.

When a house has been ordered under quarantine by the Board, all members of the family must be confined strictly to their apartments. No one is to be allowed to enter the apartments, and no one of the family permitted to leave the rooms on any excuse except that of need to go to the water-closet.

The water-closet must be disinfected and well flushed immediately after use.

All purchases of food supplies by the family must be made under the supervision of the Inspector or Policeman, and all goods received must be delivered outside of the door of the apartment, or on the dumb-waiter, if there is one.

Parties unable to purchase necessary food will be supplied by the Inspector on duty or by the Policeman.

CHARLES F. ROBERTS, M. D., Chief Inspector.

During the early part of September a stable was constructed on the river front, south of East Sixteenth street, to be used exclusively by the ambulance service connected with cholera in this city.

Four ambulances, specially designed for this service, were purchased. They were lined with rubber cloth, with the following equipment:

Two mattresses; two pillows—these were covered with rubber sheeting so they could not be infected, and could be readily rendered aseptic; two heavy woolen blankets; two canvas bags, 6 feet in length by 24 inches wide, provided with a drawing-string for the purpose of encasing the patient while being removed to the vehicle; two canvas bags, 3 feet in length and 15 inches wide, for the removal of soiled and infected bed linen, clothing, etc.; two bed pans; two emesis basins; one 2-gallon demijohn, containing a solution of bichloride of mercury (1-500); twenty pounds of sulphur; one pound of bichloride of mercury; three india-rubber suits; three india-rubber coats; three pairs india-rubber shoes; three pairs india-rubber gloves.

Four Drivers and four Helpers are constantly on duty, two being detailed in relays every twenty-four hours.

The Summer Corps of fifty Physicians, as well as sixteen additional ones, were transferred for service in the investigation and care of cholera cases. These, with the regular Inspectorial Corps of this Division, operated in the following manner:

The six Diagnosticians were on duty at all times.

The Special Corps were detailed as follows:

Three were stationed at Central Office to act as Ambulance Physicians; three were stationed at Central Office to answer telephone calls; six were stationed at Central Office to answer emergency calls, in order to establish the quarantine of the houses without delay. The remainder were ordered to make house-to-house inspection, searching for diarrhœal cases, and to investigate all cases where death from diarrhœal diseases had occurred, and also those who had visited the city dispensaries for treatment of diseases of a like character.

When a case suspicious of cholera was reported to this Division, the Diagnostician was immediately sent, provided with a sterilized bottle placed in a wooden casing, prepared by the Bacteriologist of the Department, and a bottle of antiseptic solution to render the same aseptic, subsequent to the placing in it of a specimen of the vomit or diarrhœal discharge. If this specimen was procured, it was forwarded immediately to the laboratory of the Department. The ambulance was then ordered to be in readiness to start at once.

Upon a report being received from the Diagnostician that the case was, in his opinion, suffering rom, or dead of, the disease, the following line of action was taken:

If the patient was dead, a coffin was placed in the ambulance.

The ambulance, with the Driver and Helper, was notified by telephone to proceed immediately to the house, and the Ambulance Physician and the Physician to establish quarantine started from the Central Office at the same time.

The Captain in charge of the precinct where the case occurred was notified by police telegram to detail a police officer for duty under the control of the Physician in charge of the quarantine.

Upon arriving at the house the Driver, Helper and Ambulance Physician clothed themselves in their rubber suits before entering the apartment.

The patient was placed in the large canvas bag, with a drawing string around his neck, and removed from his rooms directly to the ambulance, the Physician in attendance carrying the emesis basin to receive any vomits. The patient was placed in the ambulance and removed to the Reception Hospital, accompanied by the Physician and Driver. If the patient had succumbed to the disease, the body was wrapped in a sheet thoroughly saturated with a bichloride solution (1-500), placed in the coffin and removed to the autopsy room at the Reception Hospital.

The Helper remained at the house with the Quarantine Physician, prepared a large quantity of the solution of bichloride of mercury, and proceeded to disinfect the premises, under the direction of the Physician, in the following manner:

All bedding, clothing, carpets, and all textile fabrics in the room where the patient had been were saturated with a disinfecting solution; soiled bedding and infected clothing were placed in canvas bags, the carpets taken from the floor, and then removed in a wagon provided for the transportation of infected goods to the Disinfecting Station at the foot of East Sixteenth street and cremated.

The walls, floors and wooden furniture in apartment, the floors, surbase of halls, the floors, surbase, balusters, handrails of stairways, the door knobs, faucets of water-pipes, the seats and floors of water-closets, were all thoroughly scrubbed with hand brushes saturated with a disinfecting solu-

tion. The water-closet bowls and pipes were thoroughly flushed with a solution of carbolic acid or milk of lime.

The room or rooms which had been occupied by the patient were fumigated (after the cracks of doorways and windows were made air-tight, having paper pasted over them) with burning sulphur (3 pounds to the 1,000 cubic feet). After this action had been taken the apartment was placed under strict quarantine, a police officer stationed in the hall on that floor, who allowed no one to enter or leave the apartment. Whenever it was necessary for any of the quarantined family to visit the water-closet they were accompanied by the Physician in charge of the quarantine, and reconducted as quickly as possible to their rooms. The Quarantine Physician then made a complete census of the occupants of the house—names, ages, occupation and where employed—and sent postal cards to principals, notifying them to exclude from their schools all children residing in that house. He allowed no family to remove their goods from the house without a permit from the Chief Inspector. He kept surveillance over the water-closets, noting any of the occupants who visited the same more than twice in twenty-four hours.

All supplies for the family were purchased and paid for by the Quarantine Physician, who made a report of the condition of affairs every eight hours by telephone to the Central Office.

This strict quarantine was maintained for seven days from the time the case or body was removed. Then all the persons under quarantine were required to bathe and dress themselves in clothing which had been disinfected by the Department, and the clothing they had worn was left in the rooms, and they were required to leave the apartment.

The rooms were again scrubbed with disinfectant solution and the apartment thoroughly fumigated with sulphur (3 pounds to the 1,000 cubic feet).

For the next seven days the premises were visited by the Quarantine Physician once every twelve hours, and report made by telephone to the Central Office.

Case VII.

At the premises No. 14 First street, consisting of a group of lodging-houses and restaurant attached, occupied by one hundred and eighty-two men, working in as many different portions of the city, and the patient having been ill there for four or five days before his removal, the conditions for the spread of the disease were rendered so favorable that further precautions were deemed necessary.

The day following his removal to the hospital all the rooms and halls in the two rear houses received the same treatment as regards disinfection and fumigation as described for an infected room, all being vacant during the day while the occupants were at work.

Several dozen bathtubs were procured, and when the occupants returned home from work they were required to take a bath in a disinfecting solution, wrap themselves in a blanket from their apartment, which had been disinfected and fumigated, and return to their room, leaving the clothes they had worn to be disinfected that night, and to be returned to them the following morning. On the next day the same course of action was taken in the three front houses.

Every person upon leaving the restaurant was obliged to take four ounces of lemonade, made of lime fruit juice or dilute sulphuric acid, lemon juice and sugar.

That no secondary cases have occurred after the premises have been taken in charge by the Health Department, is undoubtedly due to the active and vigorous measures taken by the members of the corps attached to this division.

The following is a tabulated statement of the cases that have occurred :

Cases of Asiatic Cholera for the Year ending December 31, 1892.

No.	Date of Report.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.	Time in the United States.	Occupation.	Residence.	Result.	
1	Sept. 6	Charles McAvoy...	32	Male..	White	Single...	Ireland.....	8½ years	Laborer...	No. 879 Tenth avenue..	Died at residence..	Sept. 6
2	" 10	Peter Callahan....	30	" ..	"	" .	"	4 months	Stableman.	318 East Forty-seventh street...	" ..	" 10
3	" 11	William Wiegmann	52	" ..	"	Married	Germany....	30 years.	Butcher....	768 Eleventh avenue...	" ..	" 10
4	" 11	Sophia Wiegmann.	63	Female	"	"	"	32 years.	Housewife.	768 " ...	" ..	" 11
5	" 12	Minnie Levinger...	20 mo.	" ..	"	Single..	United States	Life.....	Minor.....	411 East Forty-sixth street.....	" ..	" 11
6	" 13	Charles Beck.....	35	Male..	"	Married	Germany....	32 years.	Butcher...	1764 Second avenue	Recovered.....	" 11
7	" 13	Charlotte Beck....	31	Female	"	"	"	30 years.	Housewife.	1764 "	Died at residence..	" 13
8	" 18	John Knox	31	Male..	"	"	Ireland.....	3 days...	Sailor.	Steamship "Nevada"..	Died on steamer...	" 18
9	" 19	Lewis Weinhagen..	56	" ..	"	"	Germany....	7 years..	Coachman.	14 First street.....	Died at Reception Hospital.	" 23
10	" 29	Joseph Miller.....	45	" ..	"	"	"	10 years.	Potato dealer	255 West Twenty-ninth street.....	Died at residence..	" 29

Respectfully submitted,

CHAS. F. ROBERTS, M. D., Chief Inspector.

SUPPLEMENT "B."

REPORT ON TYPHUS FEVER IN NEW YORK IN 1892.

HEALTH DEPARTMENT—CITY OF NEW YORK,
DIVISION OF CONTAGIOUS DISEASES,
December 31, 1892.

CYRUS EDSON, M. D., *Sanitary Superintendent:*

SIR—I have the honor to submit the following report respecting the cases of typhus fever that have occurred in the City of New York for the year ending December 31, 1892:

Four cases of typhoid fever were reported from the house No. 42 East Twelfth street on postal cards bearing the date of February 10, at the same time the Medical Sanitary Inspector, acting as Diagnostician, reported that he had called at the house No. 42 East Twelfth street on the evening of the 10th instant, and had examined seven patients in one room sick with what he believed to be typhus fever.

The occurrence of four cases of typhoid fever, and the report of the Inspector, led to further inspection, disclosing the presence of fifteen well-developed cases of this disease at the house No. 42 East Twelfth street.

This house was found to be a lodging-house, under the auspices of the United Hebrew Charities Association. It was filled for the most part with immigrants who had arrived in New York on the 30th of January, by steamer "Massilia," from Marseilles, France. These immigrants were Russian Hebrews, who had been driven from Russia by poverty and distress. Through the agency of the Hirsch Fund, as managed by the United Hebrew Charities Association, these immigrants had been for the most part segregated in eight different houses. Investigation made speedily disclosed the location of these houses. They were as follows: No. 42 East Twelfth street, No. 85 Monroe street, No. 166 Division street, No. 46 Delancey street, No. 31 Monroe street, No. 84 Norfolk street, No. 5 Essex street and No. 49 Pike street. Before the evening of the 11th of February, 67 cases of typhus were found in the different houses just named. These cases were at once removed to North Brother Island, by way of Reception Hospital, in the usual manner. Provision for their care and treatment was immediately provided at North Brother Island. All other immigrants who had been exposed to the contagion were removed from the different houses already named, to No. 5 Essex street and No. 42 East Twelfth street, where they were put under close sanitary surveillance. For this purpose a detail of policemen from the Sanitary Squad was made, and orders given them to permit no person to enter or leave either building without a permit in writing from the Chief Inspector of the Division of Contagious Diseases. At first this was effected by stationing one officer at each house, and relieving him every eight hours. It subsequently became necessary to double this force, stationing two officers at a time, and it was deemed wise to relieve them from duty at four-hour intervals. The officers were warned of the danger of contracting the disease, and were instructed to keep outside of the houses except in case of necessity requiring their presence within the buildings. Notwithstanding precautions taken to prevent it, cases occurred almost daily, as is shown by the table appended herewith, in both these houses. As the occurrence of these cases continued after the period of incubation, dating from the segregation of the suspects in these two houses by the Department order, it was deemed wise to vacate both houses and to con-

tinue sanitary observation of their occupants on North Brother Island. Provision having been made for them, they were removed to the Island on the 6th of March, where they were kept until twenty-one days from the date of the appearance of the last case of typhus among them. Their discharge occurred on the 8th day of April.

I have said that the infected Hebrews were for the most part segregated in eight houses. The exceptions to this statement were as follows: A family of five persons was found at No. 39 Hester street; another family of seven persons had been sent to Oakdale, Mass.; another family of five persons had been sent to Kinderhook, N. Y. The Health Officers of the places outside of New York to which infected persons had been sent were notified of the fact, and at both places named cases of typhus fever were found.

It was also ascertained on the day of the outbreak that four hundred and odd Italians had arrived with the Hebrews on the steamer "Massilia." These Italians had become scattered through this city, and many of them had gone to places outside of New York. The location of these places was ascertained from the destinations given on the passenger list in the possession of the Ellis Island authorities, and the Health Officer at each notified. The only cases of the disease noted among the Italians were found at Providence and Newburgh. From both of the latter places letters were received from the respective Health Officers, informing us of this fact.

The total number of cases occurring among the Hebrews, the dates of their occurrence and the places at which they occurred are given in the table annexed.

The first case occurring among the residents of New York, presumably from the contagion brought here by the Hebrews, was that of Max Busch, carpenter, employed in the Thalia Theatre. He was taken sick February 19 at No. 53 Bowery, a lodging-house, and was removed to Bellevue Hospital. The physicians of the hospital reported the existence of the case, and it was removed from Bellevue Hospital to North Brother Island by way of Reception Hospital. No direct history of contagion from the "Massilia" passengers could be traced, although every effort was made to trace the contagion. The obstacles in the way of successful accomplishment of work of this kind (tracing contagion) among people of the class to which this and most of the other secondary cases belong are most insuperable.

On the 21st day of February a second case occurred in Bellevue Hospital in the person of Max Tangerman, who had been removed from No. 2 Greenwich street. This case undoubtedly contracted the disease in the lodging-house kept at that number, which is frequented by immigrants, and at which some of the "Massilia" passengers doubtless remained over night.

The other case occurred on February 24, in a hospital in West Thirty-fourth street. After this, secondary cases occurred in a number of houses scattered in various parts of the city. Three cases were received from ships in quarantine. The following very remarkable fact reflects credit on the efficiency of the Department: The total number of residents who contracted typhus fever before June 1 was 70. Of this number, 10 contracted it from contagion in No. 53 Bowery (lodging house), 3 cases were found at No. 39 Hester street (a tenement-house), 4 cases were found at No. 240 Cherry street (a tenement-house). These were the only houses in which more than one case occurred. The remaining 53 cases were in fifty-three different houses. In other words, in only three of fifty-six houses did more than one case occur.

A peculiar feature of the outbreak is that the death-rate among "Massilia" passengers affected with the disease was comparatively small, while among the residents of New York it was large, and among Health Department employees (including nurses, helpers and two policemen), it was very high. Among the "Massilia" passengers there were 138 cases of the disease, of whom 13 died; among the residents of New York there were 83 cases of the disease, of whom 27 died; among Health Department employees there were 13 cases of the disease, of whom 4 died.

A description of the means taken to prevent the spread of typhus fever in this outbreak is of interest. These means are twofold, and while they seem simple and easy of application, their detail is exceedingly minute and must be carried out to a degree of perfection. They are as follows:

1st. Isolation of persons sick with the disease and those who have been exposed to its contagion.

2d. Thorough disinfection of all infected rooms and materials.

The first means was accomplished, as has already been described, by the removal of persons sick to the Hospital for Contagious Diseases, and by the segregation of the so-called "suspects" in two houses, and their subsequent removal to North Brother Island. The second means was effected, first, by thorough fumigation of infected rooms and materials in them with sulphur burned in accordance with the rules of the American Public Health Association. The sulphur is placed in iron receptacles, which are suspended in water, so that the heat from the burning sulphur causes a certain amount of steam to be evaporated from the water, and this adds moisture to the fumes gived off by the ignited sulphur. In addition to this, the sulphur is ignited by means of alcohol poured over it. The burning of the alcohol adds also to the moisture given off by the steam. The amount of sulphur used is three pounds to every 1,000 cubic feet of air space to be fumigated. After fumigation, the infected rooms were thoroughly aired, and the walls, ceilings and floors subjected to disinfection with a solution of bichloride of mercury. The strength of this solution was one part of mercury per five hundred of water. After this treatment the rooms were again fumigated in the manner already described, after which they were again aired, and the walls, ceilings and floors scrubbed with soap and water. All portable materials, such as baggage, bedding, etc., were then moved by means of the Department wagon to the Disinfecting Depot at the foot of East Sixteenth street, where they were subjected to disinfection by means of dry and moist heat, in a special chamber built for the purpose, and described in the annual report of the Board of Health for 1890. The two houses, No. 42 East Twelfth street and No. 5 Essex street, in which the "suspects" were segregated while in the city proper, were not permitted to be occupied for human habitation until a period of fourteen days had elapsed. During this period the windows were kept open so as to permit thorough airing of the dwelling.

On July 15, Mary Robbinowitch was removed from Quarantine, having arrived on the steamship "Nevada," and on the following day Haecka and Naomi Norman were received from the same steamer.

Nachma Goldstein was found ill with typhus fever at Quarantine July 18, having arrived on the steamship "Tasmania," and was removed to Riverside Hospital.

The new case that occurred in the city proper was on July 18, when the Superintendent of Mt. Sinai Hospital reported that there was a suspicious case in their isolating ward.

Upon investigation by the Medical Sanitary Inspector it was found that Harris Mainin, of No. 57 Suffolk street, was ill with typhus fever.

He was removed to the Reception Hospital and then transferred to North Brother Island. All the bedding and clothing in the room which he occupied in the isolating ward at Mt. Sinai Hospital and also in his apartment at No. 57 Suffolk street were removed to the Disinfecting Station in East Sixteenth street and cremated. The ward of hospital and rooms in Suffolk street were thoroughly disinfected and fumigated.

The premises at No. 57 Suffolk street were placed under quarantine for a period of three weeks and all the children in house were excluded from school. The house was visited by a Medical Sanitary Inspector every second day, and thorough investigation of all families failed to reveal any other case of this disease.

From this date (July 18) no case of typhus fever occurred in this city until November 30, when a suspicious case was reported in Ward 17, at Bellevue Hospital. An Inspector immediately visited the ward and found Michael Shea ill with typhus fever. He ordered his removal to North Brother Island, and all the bedding and clothing that could possibly have been infected removed to the Disinfecting Depot in East Sixteenth street and destroyed.

No visitors were allowed in the ward for three weeks, and a list of all the occupants with their addresses was furnished the Department, and notice given by the Warden when any one was discharged from the ward. An Inspector was then sent to find him, if possible, and kept him under observation.

Further investigation showed that Michael Shea, occupation that of a longshoreman, had been in the city five years, and had occupied bed No. 91, in the lodging-house at No. 173 Park Row, November 26 and 27; he was admitted to Bellevue Hospital on the 29th. He was delirious on admission, and no other information could be obtained from him or at the lodging-house.

All the bedding from his cot was removed to East Sixteenth street and destroyed, the lodging-house fumigated and disinfected and kept under observation by an Inspector for three weeks.

On the evening of the same day the Superintendent of Chambers Street Hospital telephoned that they had a suspicious case in their reception ward. The Inspector who was sent to the hospital found William Bell ill with typhus fever and he was removed to North Brother Island and the bedding destroyed.

As there were only two patients in the ward and they had no suitable place to keep them, one was transferred to Ward 17 at Bellevue Hospital, and the other to the isolating ward at New York Hospital, where he was kept for three weeks.

William Bell had occupied Cot No. 52 at the lodging-house No. 194 Park Row for three months before admission to the hospital, and was employed as a district messenger at No. 9 New street, but had not been there since November 21, when he sent word that he was sick. Bell was also delirious, and further history could not be obtained. The usual action was taken at the lodging-house and at No. 9 New street.

December 7, Jacob Goldberg was reported ill with typhus in the "isolating ward" at Mt. Sinai Hospital, and he was ordered removed to North Brother Island by the Inspector.

He was a shoemaker and worked at his residence, No. 120 Sheriff street, for Wilmerding, Morris & Mitchell, of No. 64 White street. The usual action was taken at the hospital and No. 120 Sheriff street, and although careful investigation was made, no source of contagion could be discovered.

The next case was that of Edward Devy, who was removed December 9, from the alcoholic ward at Bellevue Hospital, where he had been since December 4. He had occupied a bed in the lodging-house at No. 160 Park Row, from November 14, until his admission to the hospital, and was employed in a restaurant at No. 128 Park Row.

Later in the afternoon, John Carney was removed to North Brother Island from the same ward with typhus. He had been there since December 6, and before that had occupied Bed No. 11 at No. 194 Park Row for a long time.

On account of exposure, it was deemed advisable to strictly quarantine all the patients who had been exposed, and they were removed to the new alcoholic ward, where they could be isolated in separate rooms for three weeks.

A list of all the patients, 60 in number, who had been discharged from the ward from the admission of Devy to the time the quarantine was established, was furnished the Department.

Inspectors were detailed to trace them, if possible, and if found, to keep them under observation.

From the alcoholic ward there were discharged	60
From Ward 17 there were discharged	14
Total	74

Of these were found at addresses	20
Lived out of the city	16
Not found	38
Total	74

Thomas Cook was removed to North Brother Island, ill with typhus, December 18, from the Homœopathic Hospital on Ward's Island, where he had been since the night before. His residence was given as No. 194 Park Row, but the books at the lodging-house failed to show that he had ever slept there under that name.

All the patients were delirious when they were admitted to the hospital, so that no information could be obtained from them.

On December 29 it was reported that there were three cases of typhoid pneumonia at No. 78 Division street. An Inspector was sent to investigate, and found that Fannie Feldstein, her son

Daniel, and her granddaughter Johanna had been ill with typhus fever a week, and they were removed to the hospital. They lived over the bakery which was kept by Daniel Feldstein.

The same day Thomas Pullen, who had been living at No. 194 Park Row, walked into the New York Dispensary and was sent to the Reception Hospital ill with typhus fever.

On December 30 four suspicious cases were reported at Bellevue Hospital and four at Chambers Street Hospital, which were found to be typhus fever, and removed to Reception Hospital.

Investigation showed that five of the cases had been sick some time and had been living at No. 34 Bayard street.

From the prolonged exposure, it is probable that more cases will develop.

Table Showing Name, Age, Condition,

Admission No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
1	Feb. 11	Abram Dikar	20	Male	White	Single	Russia
2	" 11	Enig Griner	20	"	"	"	"
3	" 11	Ruvin Griner	22	"	"	"	"
4	" 11	Leon Griner	18	"	"	"	"
5	" 11	Binzivn Griner	24	"	"	"	"
6	" 11	Salomon Griner	12	"	"	"	"
7	" 11	Moses Griner	6	"	"	"	"
8	" 11	Eva Goldschmidt	8	Female	"	"	"
9	" 11	Chaga Goldschmidt	6	"	"	"	"
10	" 11	Schiffer Meizel	11	Male	"	"	"
11	" 11	David Dikar	18	"	"	"	"
12	" 11	Samuel Dikar	11	"	"	"	"
13	" 11	Malach Abramovitz	10	"	"	"	"
14	" 11	Joseph Abramovitz	38	"	"	Married	"
15	" 11	Chime Abramovitz	12	Female	"	Single	"
16	" 11	Schinner Schwartz	57	Male	"	Married	Turkey
17	" 11	Etta Hoch	18	Female	"	Single	Russia
18	" 11	Celia Hoch	22	"	"	Married	"
19	" 11	Jacob Dent	19	Male	"	Single	"
20	" 11	Israel Dent	16	"	"	"	"
21	" 11	Jude Dent	18	"	"	"	"
22	" 11	Mottil Wax	17	"	"	"	"
23	" 11	Hannah Wax	40	Female	"	"	Turkey
24	" 11	Rebecca Sinkowitz	22	"	"	"	Russia
25	" 11	Shori Harz	24	"	"	"	"
26	" 11	Clara Hoffmann	15	"	"	"	"
27	" 11	Taba Hoffmann	12	"	"	"	"
28	" 11	Simon Hoffmann	8	Male	"	"	"
29	" 11	Asriar Hoffmann	50	"	"	Married	"
30	" 11	Daniel Hoffmann	3	"	"	Single	"
31	" 11	Vaker Hoffmann	28	Female	"	Married	"
32	" 11	Clara Hoffmann	9	"	"	Single	"
33	" 11	Sima Galanka	4	"	"	"	"
34	" 11	Ruvin Schwartz	16	Male	"	"	"
35	" 11	Rebecca Schwartz	29	"	"	"	"
36	" 11	Fayer Merme				ried	"

etc., of Cases that have Occurred.

Time in United States.	Occupation.	Residence.	Result.	
10 days.....	Storekeeper	No. 42 East Twelfth street.....	Recovery.....	Feb. 26
10 "	Locksmith.....	"	"	" 29
10 "	Laborer	"	"	Mar. 17
10 "	Plumber.....	"	"	Feb. 26
10 "	Salesman	"	"	" 29
10 "	Minor.....	"	"	" 26
10 "	"	"	"	" 26
10 "	"	"	"	" 26
10 "	"	"	"	" 26
10 "	"	"	"	" 26
10 "	Sailor	"	"	" 29
10 "	Minor.....	"	"	" 26
10 "	"	"	"	" 26
10 "	Father	"	"	" 26
10 "	Minor.....	"	"	" 26
8 "	Tailor.....	No. 5 Essex street.....	"	" 26
.....	Infant.....	"	Died	Mar. 7
.....	Housewife.....	"	"	Feb. 21
14 days.....	Bookkeeper.....	"	Recovery.....	" 22
14 "	Schoolboy	"	"	" 29
14 "	Locksmith.....	"	"	" 29
12 "	Salesman	"	"	" 26
....	.....	"	"	" 26
.....	.....	"	"	" 26
.....	.....	"	"	Mar. 2
.....	Minor.....	"	"	Feb. 26
.....	"	"	"	" 26
.....	"	"	"	" 26
.....	.....	"	Died.....	" 22
.....	Minor.....	"	Recovery.....	" 26
.....	.....	"	"	" 26
.....	Minor.....	"	"	" 26
.....	"	"	"	Mar. 2
.....	Mechanic.....	"	"	Feb. 26
.....	.....	"	"	Mar. 7
.....	.....	"	Died.....	Feb. 18

Admission No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
37	Feb. 11	Rincus Merme.....	10	Male.....	White.....	Single.....	Russia.....
38	" 11	Clara Merme.....	7	Female.....	"	"	" .....
39	" 11	Fayer Moses.....	25	Male.....	"	"	" .....
40	" 11	Pell Weinstein.....	7	"	"	"	" .....
41	" 11	Zirbra Katz.....	10	Female.....	"	"	" .....
42	" 11	Jennie Loboff.....	16	"	"	"	" .....
43	" 11	Rachel Loboff.....	12	"	"	"	" .....
44	" 11	Maria Perseon.....	8	"	"	"	" .....
45	" 11	David Kopperman.....	22	Male.....	"	"	" .....
46	" 11	Izig Simzer.....	40	"	"	"	" .....
47	" 11	Baze Simzer.....	16	Female.....	"	"	" .....
48	" 11	Abram Simzer.....	14	Male.....	"	"	" .....
49	" 11	Moses Simzer.....	12	"	"	"	" .....
50	" 11	Rachel Simzer.....	6	Female.....	"	"	" .....
51	" 11	Bale Simzer.....	3	"	"	"	" .....
52	" 11	Moses Kleamann.....	38	Male.....	"	"	" .....
53	" 11	Pauline Kleamann.....	11	Female.....	"	"	" .....
54	" 11	Heller Kleamann.....	4	Male.....	"	"	" .....
55	" 12	Rachel Ziermann.....	35	Female.....	"	Married ..	" .....
56	" 12	Haba Ziermann.....	12	"	"	Single.....	" .....
57	" 12	Haine Ziermann.....	14	"	"	"	" .....
58	" 12	Rifka Ziermann.....	8	"	"	"	" .....
59	" 12	Joseph Dikar.....	15	Male.....	"	"	" .....
60	" 12	Nathan Abramowitz.....	22	"	"	"	" .....
61	" 12	Carael Abram.....	4	"	"	"	" .....
62	" 12	Hirsch Berkowitz.....	11	"	"	"	" .....
63	" 12	Golda Lewengang.....	6	Female.....	"	"	" .....
64	" 12	Isaac Lewengang.....	10	Male.....	"	"	" .....
65	" 14	Sahra Lewengang.....	16	Female.....	"	"	" .....
66	" 14	Moses Lewengang.....	12	Male.....	"	"	" .....
67	" 14	Rebecca Leboff.....	35	Female.....	"	"	" .....
68	" 14	Baby Leboff	..	Male.....	"	"	" .....
69	" 14	Aaron Berkowitz.....	11	"	"	"	" .....
70	" 14	Solalde Sobinck.....	12	"	"	"	" .....
71	" 14	Jacob Hoffman.....	6	"	"	"	" .....
72	" 15	Hisch Weinstein.....	12	"	"	"	" .....
73	" 15	Scholein Weinstein	10	"	"	"	" .....

Time in United States.	Occupation.	Residence.	Result.	
.....	.....	No. 5 Essex street.....	Recovery.....	Mar. 2
.....	Minor.....	"	"	" 2
.....	.....	No. 31 Monroe street.....	"	Feb. 26
.....	Minor.....	"	"	Mar. 2
.....	"	"	"	Feb. 26
.....	"	No. 46 Delancey street.....	"	" 26
.....	"	"	"	" 26
.....	"	"	"	" 26
12 days.....	Locksmith.....	No. 5 Essex street.....	"	" 29
12 "	Shoemaker	No. 85 Monroe street.....	"	" 26
10 "	Minor.....	"	"	" 26
12 "	"	"	"	" 26
10 "	"	"	"	" 26
10 "	"	"	"	" 26
10 "	"	"	"	" 26
12 "	.....	No. 166 Division street.....	Died.....	" 23
10 "	Minor	"	Recovery.....	" 7
10 "	"	"	"	" 26
10 "	Mother	"	Died.....	" 19
10 "	Minor.....	"	Recovery.....	" 26
10 "	"	"	"	" 26
10 "	"	"	"	" 26
12 "	Cutter.....	No. 42 East Twelfth street.....	"	" 26
12 "	Locksmith.....	No. 85 Norfolk street.....	"	" 26
12 "	Minor.....	No. 102 Orchard street.....	"	Mar. 25
12 "	"	Ellis Island.....	"	" 25
.....	"	"	"	" 17
.....	"	"	"	Feb. 26
.....	"	"	"	" 27
.....	"	"	"	" 27
....	Housewife.....	No. 5 Essex street.....	"	" 27
.....	Infant.....	"	"	" 26
.....	Minor.....	Ellis Island.....	Died.....	" 27
.....	"	No. 49 Pike street.....	Recovery.....	Mar. 7
.....	"	No. 5 Essex street.....	"	" 2
.....	"	No. 42 East Twelfth street.....	"	" 7
.....	"	"	"	" 2

Table Showing Name, Age, Condition,

Admission No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
1	Feb. 11	Abram Dikar	20	Male	White	Single	Russia
2	" 11	Enig Griner	20	"	"	"	"
3	" 11	Ruvin Griner	22	"	"	"	"
4	" 11	Leon Griner	18	"	"	"	"
5	" 11	Binzivn Griner	24	"	"	"	"
6	" 11	Salomon Griner	12	"	"	"	"
7	" 11	Moses Griner	6	"	"	"	"
8	" 11	Eva Goldschmidt	8	Female	"	"	"
9	" 11	Chaga Goldschmidt	6	"	"	"	"
10	" 11	Schiffer Meizel	11	Male	"	"	"
11	" 11	David Dikar	18	"	"	"	"
12	" 11	Samuel Dikar	11	"	"	"	"
13	" 11	Malach Abramovitz	10	"	"	"	"
14	" 11	Joseph Abramovitz	38	"	"	Married	"
15	" 11	Chime Abramovitz	12	Female	"	Single	"
16	" 11	Schinner Schwartz	57	Male	"	Married	Turkey
17	" 11	Etta Hoch	18	Female	"	Single	Russia
18	" 11	Celia Hoch	22	"	"	Married	"
19	" 11	Jacob Dent	19	Male	"	Single	"
20	" 11	Israel Dent	16	"	"	"	"
21	" 11	Jude Dent	18	"	"	"	"
22	" 11	Mottil Wax	17	"	"	"	"
23	" 11	Hannah Wax	40	Female	"	"	Turkey
24	" 11	Rebecca Sinkowitz	22	"	"	"	Russia
25	" 11	Shori Harz	24	"	"	"	"
26	" 11	Clara Hoffmann	15	"	"	"	"
27	" 11	Taba Hoffmann	12	"	"	"	"
28	" 11	Simon Hoffmann	8	Male	"	"	"
29	" 11	Asriar Hoffmann	50	"	"	Married	"
30	" 11	Daniel Hoffmann	3	"	"	Single	"
31	" 11	Vaker Hoffmann	28	Female	"	Married	"
32	" 11	Clara Hoffmann	9	"	"	Single	"
33	" 11	Sima Galanka	4	"	"	"	"
34	" 11	Ruvin Schwartz	16	Male	"	"	"
35	" 11	Rebecca Schwartz	19	Female	"	"	"
36	" 11	Fayer Merme	40	"	"	Married	"

etc., of Cases that have Occurred.

Time in United States.	Occupation.	Residence.	Result.	
10 days	Storekeeper	No. 42 East Twelfth street	Recovery	Feb. 26
10 "	Locksmith	"	"	" 29
10 "	Laborer	"	"	Mar. 17
10 "	Plumber	"	"	Feb. 26
10 "	Salesman	"	"	" 29
10 "	Minor	"	"	" 26
10 "	"	"	"	" 26
10 "	"	"	"	" 26
10 "	"	"	"	" 26
10 "	"	"	"	" 26
10 "	Sailor	"	"	" 29
10 "	Minor	"	"	" 26
10 "	"	"	"	" 26
10 "	Father	"	"	" 26
10 "	Minor	"	"	" 26
8 "	Tailor	No. 5 Essex street	"	" 26
	Infant	"	Died	Mar. 7
	Housewife	"	"	Feb. 21
14 days	Bookkeeper	"	Recovery	" 21
14 "	Schoolboy	"	"	" 29
14 "	Locksmith	"	"	" 29
12 "	Salesman	"	"	" 26
		"	"	" 26
		"	"	" 26
		"	"	Mar. 2
	Minor	"	"	Feb. 26
	"	"	"	" 26
	"	"	"	" 26
		"	Died	" 22
	Minor	"	Recovery	" 26
		"	"	" 26
	Minor	"	"	" 26
	"	"	"	Mar. 2
	Mechanic	"	"	Feb. 26
		"	"	Mar. 7
		"	Died	Feb. 18

Admission No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
74	Feb. 15	Joseph Weinstein.....	8	Male	White.....	Single.....	Russia. .....
75	" 15	Abram Mermer.....	12	"	"	"	" .....
76	" 15	Gerschan Galinsky.....	3	"	"	"	" .....
77	" 15	Milia Galinsky.....	7	"	"	"	" .....
78	" 16	Mrs. Goldschmidt.....	..	Female.....	"	Married.....	" ....
79	" 16	Mrs. Dikar.....	..	"	"	"	" .....
80	" 16	Bazil Simzer.....	8	Male.....	"	Single.....	" .....
81	" 16	Isaac Abram	31	"	"	Married.....	" .....
82	" 16	Altra Wittgenstein.....	7	Female.....	"	Single.....	" .....
83	" 16	Gutil Wittgenstein.....	4	Male.....	"	"	" .....
84	" 16	Friede Prager.....	10	Female.....	"	"	" .....
85	" 16	Hannah Rosenblatt.....	24	"	"	Married.....	" .....
86	" 16	Daniel Rosenblatt.....	3	Male.....	"	Single.....	" .....
87	" 16	Schandel Abramon.....	3	"	"	"	" .....
88	" 16	Larak Abramon.....	2	Female.....	"	"	" .....
89	" 16	Frieda Loewengoez.....	38	"	"	"	" .....
90	" 16	Hannah Gelmar.....	8	"	"	"	" .....
91	" 16	Aaron Garilick.....	35	Male.....	"	Married.....	" .....
92	" 19	Betsy Weinstein.....	5	Female.....	"	Single.....	" .....
93	" 19	Dora Katz.....	11/12	"	"	"	" .....
94	" 19	Fanny Meisel.....	12	"	"	"	" .....
95	" 19	Rosa Abraham.....	8	"	"	"	" .....
96	" 20	Eva Chilal.....	12	"	"	"	" .....
97	" 20	Isaac Marmar.....	48	Male.....	"	Married.....	" .....
98	" 20	Celia Marmar.....	16	Female.....	"	Single.....	" .....
99	" 20	Sara Marmar.....	17	"	"	"	" .....
100	" 20	Etta Leboff.....	10	"	"	"	" .....
101	" 21	Shandel Zemermann.....	2	"	"	"	" .....
102	" 22	Mrs. Spenik.....	24	"	"	Married.....	" .....
103	" 22	Abram Spenik.....	2 1/12	Male.....	"	Single.....	" .....
104	" 22	Solomon Slavinsky.....	31	"	"	Married.....	" .....
105	" 22	Rebecca Heselberg.....	44	Female.....	"	"	" .....
106	" 23	Max Busch.....	21	Male.....	"	"	Foreign .....
107	" 23	Bernhard Zermann.....	21	"	"	Single.....	" .....
108	" 23	Samuel Goldmann.....	21	"	"	"	" .....
109	" 24	Max Fengermann.....	28	"	"	.....	" .....
110	" 25	Samuel Abraham.....	10	"	"	Single.....	Russia .....

Time in United States.	Occupation.	Residence.	Result.	
.....	Minor.....	No. 42 East Twelfth street.....	Recovery.....	Mar. 2
.....	"	No. 5 Essex street.....	"	" 2
.....	"	"	"	" 2
.....	"	"	"	" 2
.....	Mother	Riverside Hospital.....	"	Feb. 26
.....	"	"	"	" 26
.....	Minor.....	"	"	" 26
.....	Peddler	"	Died.....	Mar. 14
.....	Minor.....	No. 42 East Twelfth street.....	Recovery.....	" 2
.....	"	"	"	" 2
.....	"	"	"	" 2
.....	.....	"	"	" 17
.....	Minor.....	"	"	" 17
.....	"	"	"	" 2
.....	"	"	"	" 2
.....	.....	Ellis Island.....	"	" 17
.....	Minor.....	No. 42 East Twelfth street.....	"	" 2
.....	"	No. 5 Essex street.....	"	Feb. 26
.....	"	No. 42 East Twelfth street.....	"	Mar. 17
.....	"	No. 5 Essex street.....	Died.....	Feb. 29
.....	"	No. 42 East Twelfth street.....	Recovery.....	Mar. 7
.....	"	"	"	" 2
.....	"	No. 166 Division street.....	"	" 7
.....	.....	No. 5 Essex street.....	"	Feb. 29
.....	Minor.....	"	"	Mar. 7
.....	"	"	"	" 2
.....	"	"	"	Feb. 26
10 days	"	Riverside Hospital.....	"	" 26
.....	Housewife	No. 39 Water street.....	"	Mar. 17
.....	Minor.....	"	"	" 17
.....	.....	No. 5 Essex street.....	"	" 17
.....	Housewife.....	No. 42 East Twelfth street.....	"	" 7
.....	.....	Bellevue Hospital	"	" 19
.....	.....	No. 49 Pike street.....	"	" 17
.....	.....	No. 53 Bowery	"	" 19
.....	.....	Bellevue Hospital.....	Died.....	Feb. 25
.....	Minor.....	No. 42 East Twelfth street.....	Recovery.....	Mar. 25

Admission No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
111	Feb. 25	August Herde.....	30	Male.....	White.....	Single.....	Switzerland.....
112	" 26	August Corbay.....	31	"	"	.....	Foreign.....
113	" 26	Aaron Aaronson.....	15	"	"	.....	Russia .....
114	" 26	Dennis Murray.....	36	"	"	.....	Ireland.....
115	" 26	Jana Rosenblatt	7	Female.....	"	Single.....	Russia .....
116	" 26	Samuel Kaufmann.....	15	Male.....	"	"	" .....
117	" 27	Hya Weinstein	30	Female.....	"	Married.....	" .....
118	" 27	Jacob Schapiro.....	17	Male.....	"	Single.....	" .....
119	" 27	Meyer Schapiro.....	8	"	"	"	" .....
120	" 27	Tony (Fanny) Meisel.....	19	"	"	"	" .....
121	" 29	Rebecca Katz.....	28	Female.....	"	Married.....	" .....
122	" 29	Henry Dowd.....	19	Male.....	"	Single.....	Ireland.....
123	" 29	Siegmund Moskiewitz....	21	"	"	"	Russia .....
124	" 29	Herman Finkelstein.....	18	"	"	"	" .....
125	" 29	Max Morris.....	24	"	"	"	" .....
126	" 29	Mana Hager.....	24	Female.....	"	.....	" .....
127	" 29	Fanny Segal.....	30	"	"	.....	" .....
128	" 29	John Leary.....	48	Male.....	"	Married.....	Ireland.....
129	" 29	Anath Tirafrensio.....	22	Female.....	"	Single	Italy .....
130	" 29	Joseph Prager.....	..	Male.....	"	"	Russia.....
131	" 29	Dora Diker.....	18	Female.....	"	"	" .....
132	" 29	Rebecca Diker.....	20	"	"	"	" .....
133	" 29	Nathaniel Davis.....	55	Male.....	"	Married.....	United States....
134	" 29	Ruben Abram.....	8	"	"	Single	Russia.....
135	" 29	Lazar Drut.....	22	"	"	"	" .....
136	" 29	Sara Prager.....	8	Female.....	"	"	" .....
137	" 29	Salomon Peshn.....	31	Male.....	"	"	" .....
138	" 29	Morris Rudmann.....	28	"	"	"	" .....
139	" 29	Isaac Abramowitz.....	15	"	"	"	" .....
140	Mar. 1	Juli Galinki.....	9	Female.....	"	"	" .....
141	" 1	Fritz Muller.....	45	Male.....	"	.....	Germany.....
142	" 1	Joe Seglar.....	21	"	"	.....	Russia.....
143	" 2	F. J. Hamilton.....	41	"	"	.....	United States....
144	" 2	Isaac Jaffe.....	10	"	"	Single.....	Russia.....
145	" 2	Louis Bosch	24	"	"	.....	Germany.....
146	" 3	Heinrich Hoch.....	25	"	"	Married.....	Russia .....
147	" 3	Jacob Maize.....	35	"	"	"	" .....

Time in United States.	Occupation.	Residence.	Result.	
19 months	Cook	No. 108 Second avenue	Died	Mar. 10
		Trinity Hospital	Recovery	" 19
		No. 147 Madison street	Died	" 1
		No. 53 Bowery	"	" 7
	Minor	No. 42 East Twelfth street	Recovery	" 17
	"	"	"	" 19
	Housewife	"	"	" 17
		No. 5 Essex street	"	" 17
	Minor	"	"	" 17
		No. 42 East Twelfth street	"	" 17
	Mother	Riverside Hospital	Died	" 7
	Waiter	Bellevue Hospital	Recovery	" 26
		No. 42 East Twelfth street	"	" 26
		"	"	" 24
		No. 5 Essex street	"	" 19
		No. 49 Pike street	"	" 19
		"	Died	" 5
		No. 53 Bowery	Discharged	Apr. 6
		New York Dispensary	Recovery	Mar. 27
		No. 42 East Twelfth street	Discharged	Apr. 20
		"	Recovery	Mar. 25
		"	"	" 25
Life		Bellevue Hospital	Died	" 9
		No. 42 East Twelfth street	Recovery	" 25
		"	Discharged	" 24
	Minor	"	Recovery	" 25
		"	"	" 24
		"	"	" 24
		No. 13 Forsyth street	"	Apr. 9
	Minor	No. 42 East Twelfth street	"	Mar. 19
		German Hospital	"	" 18
		No. 183 Rivington street	Died	" 8
Life	Reporter	No. 309 Mulberry street	"	" 14
	Minor	No. 42 East Twelfth street	Recovery	" 24
	Grocer	No. 55 Rose street	"	" 19
		No. 42 East Twelfth street	"	Apr. 9
		"	"	Mar. 24

Admission No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
148	Mar. 3	Ernest Noble.....	40	Male.....	White.....	Married.....	England.....
149	" 3	Catherine Glennan.....	50	Female.....	"	"	Ireland.....
150	" 3	Albert Ellis	30	Male.....	"	Single.....	United States....
151	" 3	Basil Simchowitz	3	"	"	"	Russia.....
152	" 3	Moritz Kruskal.....	39	"	"	Married.....	" .....
153	" 3	William Wagner.....	25	"	"	.....	Germany.....
154	" 4	Catherine Murphy.....	57	Female.....	"	Married.....	Scotland.....
155	" 4	Annie Foy.....	..	"	"	Single.....	United States....
156	" 4	Charles Meisler.....	24	Male.....	"	.....	Russia.....
157	" 4	Mose Abram.....	3	Female.....	"	Single.....	" .....
158	Feb. 29	Ellje Ronzo.....	36	Male.....	"	.....	" .....
159	Mar. 5	Ernestine Nathanson....	28	Female.....	"	.....	" .....
160	" 5	Abram Jeffa.....	37	Male.....	"	.....	" .....
161	" 5	Louis Lebendiger.....	16	"	"	.....	" .....
162	" 6	Max Zischke.....	32	"	"	.....	" .....
163	" 6	August Fromme.....	..	"	"	.....	Germany.....
164	" 6	Charles Blumenthal.....	22	"	"	.....	" .....
165	" 6	Constant Yaska.....	37	"	"	.....	Russia.....
166	" 7	William Back.....	39	"	"	.....	Germany.....
167	" 8	Edward Whalen.....	41	"	"	.....	United States....
168	" 8	Alexander Neblo.....	20	"	"	.....	" ....
169	" 8	Herman Klein.....	37	"	"	.....	Germany.....
170	" 8	Jennie Greenthaler.....	26	Female.....	"	.....	" .....
171	" 8	Sahra Koslofsky.....	20	"	"	Single.....	Russia .....
172	" 8	Lail Laboff.....	14	"	"	"	" .....
173	" 8	Edward H. O'Conner ...	35	Male.....	"	.....	United States....
174	" 8	Baruch Stetson.....	13	Female.....	"	Single.....	" .....
175	" 10	Rose Prager.....	30	"	"	Married.....	Russia .....
176	" 10	Unknown Boy.....	5	Male...	"	Single.....	" .....
177	" 10	Kusal Epstein.....	23	"	"	"	" .....
178	" 11	Friedman Silberstein.....	24	"	"	"	" .....
179	" 12	Mary Sigoer.....	19	Female.....	"	"	" .....
180	" 16	Mary Bergmann.....	36	"	"	"	Germany.....
181	" 17	Lizzie Fitzpatrick.....	....	"	"	.....	Scotland.....
182	" 18	Schiline Katz.....	14	Male.....	"	Single.....	Russia .....
183	" 20	Richard Turfey.....	18	"	"	"	United States....
184	" 23	James Boid.....	32	"	"	"	England .....

Time in United States.	Occupation.	Residence.	Result.	
.....	Attendant	Reception Hospital.....	Died	Mar. 10
....	Helper	Riverside Hospital	"	" 6
Life.....	.....	"	Recovery.....	Apr. 6
.....	Minor.	No. 42 East Twelfth street.....	Died	Mar. 4
.....	.....	No. 126 East Broadway.....	"	" 14
.....	.....	No. 188 Ludlow street.....	"	" 13
.....	Helper	Riverside Hospital.....	Recovery.....	Apr. 6
....	Nurse.....	"	"	" 14
.....	.....	No. 150 Clinton street.....	"	Mar. 26
.....	Minor.....	No. 42 East Twelfth street.....	"	" 25
.....	.....	"	Died	" 5
.....	.....	No. 132 Orchard street.....	Recovery.....	" 26
.....	....	No. 42 East Twelfth street.....	"	" 24
.....	.....	No. 3 Ludlow street.....	"	" 19
.....	.....	Homœopathic Hospital.....	Died	" 9
.....	.....	Riverside Hospital.....	"	" 15
.....	....	Bellevue Hospital.....	Recovery.....	" 22
.....	.....	No. 53 Bowery.....	Died	" 10
.....	.....	Bellevue Hospital.....	"	" 9
Life.....	Policeman.....	No. 321 West Fifty-sixth street.....	Recovery.....	" 25
"	.....	No. 53 Bowery.....	Transferred....	" 12
.....	.....	"	Discharged....	" 30
....	.....	No. 169 East Sixty-ninth street.....	"	Apr. 29
....	.....	No. 104 Allen street.....	Recovery.....	Mar. 26
.....	....	No. 42 East Twelfth street.....	"	" 24
Life	Policeman.....	No. 231 West Fourth street.....	Died	" 18
"	Minor.....	No. 42 East Twelfth street.....	Recovery.....	" 25
.....	Housewife.....	"	"	Apr. 10
.....	Minor.....	Unknown.....	"	" 29
.....	.....	No. 23 Forsyth street	"	Mar. 26
.....	.....	No. 235 Broome street.....	"	" 24
.....	.....	Broome and Essex streets	"	Apr. 13
.....	Helper	Riverside Hospital	"	" 23
.....	"	"	Discharged....	" 11
.....	Minor.....	No. 42 East Twelfth street.....	"	" 4
Life	Driver.....	No. 83 Bowery ; Homœopathic Hospital.....	"	" 28
11 years.....	Cook.....	No. 11 Bowery.....	Died.....	Mar. 25

Admission No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
185	Mar. 24	Fanny Marx	40	Female	White	Single	Russia
186	" 31	Mary Switzer	....	"	"	"	United States
187	" 31	Eliza Thornton	....	"	"	"	Ireland
188	April 1	Minnie Birkmann	16	"	"	"	
189	" 2	James Brookes	25	Male	"	"	United States
190	" 2	Paul Anderson	42	"	"	Married	France
191	" 4	Bella Schmeid	50	Female	"	"	Russia
192	" 6	Schiel Michalson	31	Male	"		"
193	" 7	Jennie Goldmann	30	Female	"	Married	"
194	" 8	Bernard Hollowitz	17	Male	"	Single	"
195	" 14	William Sullivan	53	"	"		Ireland
196	" 15	Fergus Casey	34	"	"		
197	" 19	Selig Di Keyser	35	"	"	Single	Poland
198	" 20	Oojer Seges	20	"	"	"	Foreign
199	" 29	Abni Michalson	4	"	"	"	United States
200	" 29	Leo Rosenblatt	19	"	"	"	"
201	May 2	Mary Zetalon	30	Female	"		
202	" 5	Sam. Moskowitz	24	Male	"		
203	" 5	Hannah Goodlitzer	23	Female	"	Married	
204	" 5	Louis Cohen	28	Male	"		
205	" 5	Sam. Beckler	17	"	"		
206	" 11	Harris Rosen	25	"	"	Single	Poland
207	" 16	Anna Marx	23	Female	"	Married	Foreign
208	June 2	Davis Sonkin	24	Male	"	Single	Russia
209	" 4	Jacob Okstein	16	"	"	"	"
210	" 7	Ida Friedman	22	Female	"	Married	Foreign
211	" 9	Abram Abramovitz	43	Male	"		"
212	" 16	Charles A. Scott	44	"	"	Single	United States
213	" 18	Max Katz	26	"	"	Married	Austria
214	" 24	Simon Okstein	23	"	"	Single	Russia
215	" 25	Albert Roeder	25	"	"		Germany
216	" 30	Carl Koch	23	"	"	Single	"
217	April 18	John Cunningham	30	"	"		United States
218	" 26	Graremo Gaco	26	"	"		"
219	July 15	Mary Robbinowitch	20	Female	"	Single	Russia
220	" 16	Haecka Norman	18	"	"	"	"
221	" 16	Naomi Norman	15	"	"	"	"

Time in United States.	Occupation.	Residence.	Result.		
.....	.....	No. 81 Stanton street; Mount Sinai Hospital	Recovery	Apr.	25
Life	Nurse	Riverside Hospital	Discharged	"	22
.....	Helper	"	Died	"	5
.....	.....	Mount Sinai Hospital	"	"	5
Life	Driver	Workhouse	Discharged	"	25
7 years	Shoemaker	Workhouse, No. 57 Wooster street	Died	May	3
.....	.....	No. 61 Eldridge street; Mount Sinai Hospital	Discharged	Apr	25
.....	Salesman	No. 240 Cherry street	"	"	21
2 years	Peddler	No. 48 Forsyth street; Bellevue Hospital	"	"	25
.....	Clerk	Broome and Norfolk streets	"	"	21
.....	.....	.....	Died	May	3
.....	.....	No. 761 Greenwich street	Discharged	"	23
20 years	Crockeryware ...	No. 228 East One Hundred and Twentieth street	"	"	20
.....	.....	No. 111 Essex street	"	"	23
Life	Minor	No. 249 Spring street	"	"	23
"	.....	No. 21 Forsyth street	"	"	21
.....	.....	No. 174 Monroe street	"	"	27
.....	.....	No. 94 Division street	"	June	29
.....	Mother	No. 240 Cherry street	"	May	31
.....	.....	No. 137 Monroe street	"	"	27
.....	.....	No. 51 Norfolk street	"	"	27
1 year	Tailor	No. 75 Ludlow street	"	"	30
.....	Housewife	No. 73 Willett street	"	"	25
.....	.....	Mount Sinai Hospital; No. 45 Eldridge street ..	Died	June	1
.....	.....	No. 198 Stanton street	Discharged ..	"	29
.....	Housewife	No. 114 Willett street	"	"	27
.....	.....	Hospital; No. 206 East Broadway	Died	"	11
Life	Reporter	No. 1109 Third avenue; Presbyterian Hospital.	"	"	22
.....	Operator	No. 205 Delancey street; Mount Sinai Hospital.	Discharged	July	18
.....	.....	No. 67 West Houston street; Mount Sinai Hospital	"	"	18
.....	.....	Ward's Island	Died	June	25
.....	Shoemaker	Steamship "Hermann"	Discharged	July	22
.....	.....	No. 193 Park Row; Gouverneur Hospital	Died	Apr	18
.....	.....	No. 36 Cherry street; Bellevue Hospital	"	"	26
.....	Housewife	Quarantine	Discharged	Aug.	17
.....	"	"	"	"	17
.....	Minor	"	"	"	10

Admission No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
222	July 18	Nachna Goldstein.....	20	Female.....	White.....	Single.....	Poland.....
223	" 18	Harris Mainin.....	22	Male.....	"	"	Russia.....
224	Nov. 30	William Bell.....	45	"	"	"	United States....
225	" 30	Michael Shea.....	26	"	"	"	Ireland.....
226	Dec. 7	Jakel Goldberg.....	25	"	"	"	Russia .....
227	" 9	Edward Devy.....	40	"	"	"	Ireland.....
228	" 9	John Carney.....	32	"	"	"	United States....
229	" 18	Thomas Cook.....	46	"	"	"	" ....
230	" 29	Johanna Feldstein.....	5	Female.....	"	"	" ....
231	" 29	Fannie Feldstein	68	"	"	Married.....	Germany.....
232	" 29	Daniel Feldstein.....	39	Male.....	"	"	" .....
233	" 29	Thomas Pullan.....	39	"	"	Single.....	England.....
234	" 30	Charles Worms.....	58	"	"	"	Germany.....
235	" 30	John McCauley.....	38	"	"	"	Ireland.....
236	" 30	Michael Ward.....	27	"	"	Married.....	United States....
237	" 30	Joseph Morton.....	20	"	"	Single.....	" ....
238	" 30	William Cherry	30	"	"	Married.....	Scotland.....
239	" 30	David Welsh.....	26	"	"	Single.....	United States....
240	" 30	Lawrence Hudson.....	30	"	"	"	Ireland.....
241	" 30	Charles Frortz.....	28	"	"	"	Germany.....

The following is a summary of the cases and the number of deaths that have occurred:

Total Number of Cases.

	Males.	Females.	Total.
Under 5 years of age.....	11	7	18
From 5 to 15 years of age.....	32	29	61
From 15 to 25 years of age.....	49	20	69
From 25 to 45 years of age.....	53	22	75
Over 45 years of age.....	12	6	18
Total.....	157	84	241

Time in United States.	Occupation.	Residence.	Result	
.....	Housewife.....	Quarantine.....	Discharged....	Aug. 17
.....	Lithographer....	Mt. Sinai Hospital; No. 57 Suffolk street.....	"	" 8
.....	Messenger.....	No. 194 Park Row.....	Died.....	Dec. 2
.....	Longshoreman...	No. 173 Park Row.....	Discharged....	" 19
.....	Shoemaker.....	No. 120 Sheriff street.....	"	" 19
.....	Waiter.....	No. 160 Park Row.....	Died.....	" 10
.....	Laborer.....	No. 194 Park Row.....	"	" 10
.....	"	Homœopathic Hospital.....	"	" 19
.....	Minor.....	No. 78 Division street.....	In hospital.....	
.....	Housewife.....	"	Died.....	Dec. 29
.....	Baker.....	"	In hospital.....	
.....	Laborer.....	New York Dispensary; No. 194 Park Row....	"	
.....	Waiter.....	No. 46 Division street.....	"	
.....	Laborer.....	No. 34 Bayard street.....	"	
.....	"	No. 41 Bowery.....	"	
.....	Kitchenman.....	No. 34 Bayard street.....	"	
.....	Moulder.	"	"	
.....	Laborer.....	"	Died.....	Dec. 30
.....	Driver.....	"	"	" 31
.....	Laborer.....	No. 194 Park Row.....	In hospital....	

Total Number of Deaths.

	Males.	Females.	Total.
Under 5 years of age.....	1	2	3
From 5 to 15 years of age.....	1	..	1
From 15 to 25 years of age.....	2	2	4
From 25 to 45 years of age.....	21	5	26
Over 45 years of age.....	9	2	11
Total.....	34	11	45

	Cases.	Deaths.
From steamship "Massilia"	138	13
From Quarantine	7	..
Residents of New York	83	27
Nurses and Helpers	11	4
Policemen	2	1
Total	241	45

Respectfully submitted,

CHAS. F. ROBERTS, M. D., Chief Inspector.

SUPPLEMENT "C."

Report on Small-pox in New York in 1892.

Health Department—City of New York,
Division of Contagious Diseases,
December 31, 1892.

Cyrus Edson, M.D., *Sanitary Superintendent:*

Sir—I have the honor to submit the following report respecting the cases of small-pox that have occurred in the City of New York for year ending December 31, 1892.

On Monday, January 18, Frank Poppa, thirty-seven years of age, a bootblack living at No. 141 Sullivan street, was reported ill with a suspicious eruption. He was visited by one of our Inspectors, who suspected the disease was modified small-pox, and the case was seen by the Consulting Dermatologist, but their suspicions were not fully confirmed.

On Tuesday, January 19, a citizen reported to this Division that a case of small-pox was concealed in a bed-room on the upper floor of No. 141 Sullivan street. The premises were visited by Dr. Cyrus Edson, then chief of this Division, and myself, and four cases—the stage of the disease varying from seven to twelve days—were found concealed in the houses Nos. 141 and 143 Sullivan street.

These cases were at once removed to the Reception Hospital, and the following course of action was taken, as is the rule of the Department in all cases of this disease:

The rooms occupied by the patient and his family were immediately fumigated with burning sulphur, three pounds to the thousand cubic feet allowed, the doors and windows kept closed for a space of five hours, bedding removed to the disinfecting station and subjected to dry and moist heat, 250 degrees Fahrenheit, all of the inmates of these and the adjoining houses vaccinated, the premises placed in charge of a Vaccinator, and every family visited for the period of quarantine, which is twenty-one days. We ascertained that two of these cases had been living in Newark in a house where small-pox had existed, and this was undoubtedly the primary source of the contagion which has caused the disease to appear amongst us.

At the time of the discovery of these four cases it was reported by some of the occupants of the house that a female infant suffering with this disease had been taken away and concealed in one of the adjoining houses by its parents, and, although all of these adjoining houses were visited once or twice a day by the Vaccinators and Diagnosticians of the Board, we were unable to verify the statement, so it was deemed expedient by the Chief Inspector to make a raid on these and the adjoining premises at night. All of the physicians of the Division, accompanied by several members of the Sanitary Squad, were ordered on duty, and all of the tenement-houses in the neighborhood were simultaneously visited, the policemen guarding all exits, roof, yard, etc. We were unable, however, to verify the rumor, and no concealed cases were found.

On the following day a case was reported at No. 2130 Second avenue, the Diagnosticians were notified and it was removed to the hospital.

Cases continued to be reported in various portions of the city among the Italians (with some few exceptions) until March 30, when Anastasia Sullivan, nineteen years old, was removed from Bellevue to the Reception Hospital, ill with small-pox.

On April 4, Christina Wilson was removed from No. 304 West Twenty-seventh street to the Reception Hospital. Their recognizing each other at North Brother Island led to the discovery that they had both been visiting a lodging-house at No. 15 Bleecker street, kept by Annie Young, sixty years old, who they said had been ill with supposed chicken-pox. Visit to the premises by our Inspector revealed the fact that she was just recovering from a severe attack of small-pox.

The premises were fumigated, goods removed, and the store closed, and it was found necessary to station a policeman at the door to prevent visitors. From the non-recognition of the disease in this case by the attending physician no less than eighteen cases are directly traceable.

It is a noticeable fact that the character of the eruption in a very large number of the cases which we have been called upon to visit simulated the appearance that we are accustomed to find in cases of chicken-pox.

This, and the fact that but few cases of small-pox had been in the city for the last seven years, was one of the causes of the lack of the early diagnosing and reporting of many of the cases by the attending physician.

The next notable group of cases occurred in East Sixteenth street, between Avenues A and B. From this source of contagion eleven cases occurred, one of whom was the physician who attended them and failed in the early stages to recognize the character of the disease.

The next group was in East Fifty-sixth and Fifty-seventh streets, between Second and Third avenues. From this focus of contagion thirteen cases occurred.

In Spring street, near Sullivan, a group numbering sixteen cases occurred. This undoubtedly received the contagion from the first cases in Sullivan street.

On July 7 two men were reported ill with small-pox at the New York Hospital, who had contracted the disease from a case which was sent from there to Reception Hospital June 24.

Although vaccination was performed at that time by the authorities of the hospital on all unprotected persons in the building, many of the vaccinations, owing probably to the extreme hot weather at that time of the year, were not successful.

At the time of the reoccurrence of the disease in the hospltal, general vaccination was performed there by an Inspector from this Department. Thereafter one case only developed, which was removed to the Reception Hospital on the 16th day of July.

Late in the evening on July 24, the police reported a case of small-pox at No. 530½ Broome street, near Thompson street. An Inspector was immediately sent there and found four children ill with small-pox from one to three weeks' duration. Strenuous efforts were made on the part of the occupants of the house to prevent the Inspector from seeing these cases. Two days later, another case developed in the same house. From this source of contagion eighteen other cases occurred in the neighborhood.

There were many obstacles to overcome in connection with these cases. First, the objection of many of the people to vaccination; and second, a greater dread of the hospital than of the disease. They would do everything in their power to conceal the fact that any of their friends, relatives or neighbors were ill with small-pox.

July 15 a case of small-pox was reported at No. 25 Pitt street. Upon search and investigation on the part of the Inspector, four children were found in the same family suffering from the disease, and were at once removed to the Reception Hospital, the rooms fumigated, the bedding taken to Sixteenth street and disinfected with steam. The residents in this neighborhood were thoroughly vaccinated. The only case of small-pox which developed here thereafter happened on August 4 in the same house.

During the months of July and August five cases were received from Quarantine and transferred to Riverside Hospital.

August 31, Rox Malle and his two children were found in the rear house of No. 237 West Forty-sixth street by a member of the Summer Corps during his investigation among the sick poor of the city. These children had been ill over a week, and had not been attended by a physician. The usual course of action as regards disinfection, vaccination and fumigation was taken, and no other case developed.

September 3, Phillip Alt was removed to the hospital from No. 329 West Sixty-seventh street, where he had been sick for two weeks, the attending physician having failed to recognize the nature of the case. The following day our Inspector found three other cases of small-pox in the neighbor hood. The residents in that locality were all vaccinated and only one more case developed.

September 6, cases were reported in the "Annexed District" of the city, and, up to November 16, when the last case occurred in that locality, there had been 26 persons removed to the hospital ill with small-pox. October 4 it was found that Lingi Brona had died with small-pox at No. 68 Crosby street, and on October 25 that Antonio Lorarri had died of the same disease at No. 41 Thompson street, and the cases had not been reported to the Board of Health till after death. From this exposure there were thirteen cases in the Italian district, the last occurring on November 7.

Jacob Helmers was removed to the hospital ill with small-pox on October 21, from No. 427 East Fourteenth street, having been ill there several days, and from this neighborhood we removed five cases.

November 10, it was discovered that John Buckley had been ill with small-pox a week at No. 145 West Sixtieth street, the physician having mistaken the case as one of varicella. He was removed to the hospital and four cases developed from the exposure.

Since November there has been a marked decrease in the number of cases, which is due to the efficient and thorough vaccination which has been performed by the Department.

As soon as the residents of the localities where persons had been exposed to small-pox had been successfully vaccinated, the disease ceased in that quarter of the city.

The following orders were issued to govern the action of Inspectors and Vaccinators in the Department:

HEALTH DEPARTMENT—CITY OF NEW YORK,
DIVISION OF CONTAGIOUS DISEASES.

ORDER NO. 114.

Whenever a house in which small-pox has occurred is given in charge of a Vaccinator he will immediately vaccinate all persons who are unprotected. He will take a census of the house and watch the inmates and exclude all children from school.

He must visit the house at least every other day for three weeks, and he will be held responsible for any case that occurs.

In case he finds any one sick he must make daily visits until he is assured they are not suffering from small-pox. He must also vaccinate in the adjoining houses.

Families in which the disease has occurred will not be permitted to move from the house; other families may do so if they wish.

All Vaccinators must report at the Central Office in person or by telephone every day between 3 and 4 o'clock P. M. Telephone call, "Spring, No. 251."

CHARLES F. ROBERTS, M. D., Chief Inspector.

HEALTH DEPARTMENT—CITY OF NEW YORK,
DIVISION OF CONTAGIOUS DISEASES.

ORDER NO. 115.

All cases of small-pox should be removed to the hospital if possible. If a case occurs in a private dwelling occupied by one family and the Inspector, after consultation with the attending physician, decides that the patient can be safely isolated, the following precautions must be observed:

Patients must be placed on the top floor of the house, with a nurse or attendant, who shall not be allowed to leave that floor.

No one will be allowed to see the patient, except the physician, nurse and health authorities.

All articles must be disinfected before removal from the room.

All communication must be by means of a bell calling the attention of the nurse, the person outside retiring before the door is opened.

The Inspector must visit the house twice a week, but not enter the apartment unless it is necessary.

Whenever any case of contagious disease occurs in a hotel and cannot be removed to the hospital, it must be quarantined on the top floor and all the rooms formerly occupied fumigated, and hotel visited by District Inspector twice a week, until patient has fully recovered.

CHARLES F. ROBERTS, M. D., Chief Inspector.

Table showing Name, Age, Condition, etc.,

No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
1	Jan. 20	Frank Pappa	37	Male	White	Married	Italy
2	" 20	Donato Russa	23	"	"	Single	"
3	" 20	Veto Radica	26	"	"	"	"
4	" 20	Theresa Passi	8/12	Female	"	"	United States
5	" 21	Lauren Berrill	25	Male	"	"	Ireland
6	" 21	Gaatano Ferrers	38	"	"	"	Italy
7	" 22	John Bowman	22	"	"	"	United States
8	" 26	Frank Murphy	24	"	"	"	England
9	" 27	Peter Smith	52	"	"	Married	Germany
10	" 27	Antonio Pallipre	27	"	"	"	Italy
11	" 27	Charles Pragmali	10/12	"	"	Single	United States
12	" 27	Ruth Damaso	1	Female	"	"	"
13	" 30	Angelina Papa	2 8/12	"	"	"	"
14	Feb. 2	Thomas Regan	37	Male	"	"	Ireland
15	" 3	Jonas Switzer	18	"	"	"	Germany
16	" 3	Domenico Calluchio	11/12	"	"	"	United States
17	" 4	Rosa Maraffina	29	Female	"	Married	Italy
18	" 4	Tony Nioma	11/12	Male	"	Single	United States
19	" 5	Elizabeth Meyer	51	Female	"	Married	Germany
20	" 6	Lucia De Napoli	40	"	"	"	Italy
21	" 8	Henry Regner	20	Male	"	Single	United States
22	" 8	Domenico Frolin	3	"	"	"	"
23	" 9	Joseph Sandera	10/12	"	"	"	"
24	" 9	Vingasia Sandore	4	"	"	"	"
25	" 11	Sebastiano Chechera	11/12	"	"	"	"
26	" 13	James Cappelo	24	"	"	Married	Italy
27	" 13	Lenonora Cappelo	17	Female	"	"	"
28	" 14	Rosa Massari	20	"	"	Single	"
29	" 15	John Blauvelt	32	Male	"	Married	United States
30	" 15	Martha Fleurer	45	Female	Black	"	"
31	" 17	Nicolina Calestina	11/12	Male	White	Single	"
32	" 17	Juan Setrogatti	40	"	"	Married	Italy
33	" 17	Giovanni Ladriano	34	"	"	"	"
34	" 17	Catharine Grandissal	15 days	Female	"	Single	United States
35	" 18	Frank Skinkil	24	Male	"	"	Poland
36	" 19	Antonia Grandiosa	44	"	"	Married	Italy

of Cases of Small-pox that have Occurred.

Occupation.	Residence.	Result.	
Bootblack	No. 141 Sullivan street	Discharged	Feb. 1
Laborer	"	"	" 20
"	No. 143 Sullivan street	"	" 9
Minor	"	"	" 6
Fireman	No. 2130 Second avenue	"	" 25
Fruiterer	No. 157 Thompson street	"	" 20
Clerk	No. 235 East One Hundred and Twenty-first street	"	" 6
Machinist	No. 342 Madison street	"	" 8
Carpenter	No. 141 Sullivan street	Died	Jan. 31
Bootblack	No. 137 Mott street	Discharged	Feb. 28
Minor	No. 143 Sullivan street	"	" 16
"	No. 141 Sullivan street	"	" 11
"	"	"	" 6
Laborer	No. 2130 Second avenue	"	" 15
Embroiderer	No. 104 West Third street	"	" 27
Minor	No. 143 Sullivan street	"	" 16
Housewife	No. 455 West Forty-sixth street	"	" 20
Minor	" Roosevelt Hospital	Died	" 4
	No. 235 East One Hundred and Twenty-first street	Discharged	" 13
	No. 39 Park street	"	Mar. 4
Candy-store	No. 25 Jackson avenue, Long Island City	"	May 4
Minor	No. 85 Elizabeth street	"	Mar. 19
"	No. 455 West Forty-sixth street	"	Feb. 20
"	"	"	Mar. 16
"	"	"	" 25
Laborer	No. 310 East Forty-fifth street	"	" 12
Housewife	"	Died	" 3
	No. 145 Sullivan street	"	Feb. 16
Carpenter	No. 559 West Fifty-first street	Discharged	Mar. 19
	No. 218 West Sixty-second street	"	" 16
Minor	No. 120 Mulberry street	Died	Feb. 2
Laborer	No. 39 Park street	Discharged	Mar. 4
"	No. 82 Mulberry street	"	" 7
Minor	No. 120 Mulberry street	Died	Feb. 24
	Quarantine	Discharged	" 27
Bootblack	No. 120 Mulberry street	"	" 27

No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
37	Feb. 19	Vincenzo Starr	28	Male	White	Married	Italy
38	" 20	Frank Slaiy	18	"	"	Single	"
39	" 24	M. A. Facinella	29	Female	"	Married	"
40	" 27	Vincinte Rookowsky	26	Male	"	Single	Poland
41	" 29	Alfred Vafromulle	2	"	"	"	United States
42	" 29	Frank H. Harris	31	"	"	"	"
43	Mar. 3	Rocco Ciechetto	39	"	"	Married	Italy
44	" 4	Anna Bososky	33	Female	"	"	Russia
45	" 4	David Kreed	11/12	Male	"	Single	"
46	" 4	George Bod	1	"	"	"	"
47	" 4	Julia Canwar	17	Female	"	"	United States
48	" 4	Maria Morenz	18	"	"	"	Italy
49	" 6	Andreas Woitzskay	18	Male	"	"	Austria
50	" 17	Barlow K. Bergen	23	"	"	"	United States
51	" 18	Alex. Caiman	17	"	"	"	"
52	" 20	Christopher Egers	53	"	"	Married	Germany
53	" 20	Fred. W. Johnson	34	"	"	"	England
54	" 20	Henry Luflander	52	"	"	"	Germany
55	" 25	Patrick Nylan	26	"	"	"	Ireland
56	" 29	Tho. Gillan	19	"	"	Single	United States
57	Apr. 1	Anestasia Sullivan	19	Female	"	"	"
58	" 4	Peter March	38	Male	"	"	Italy
59	" 4	Angelo Givro	36	"	"	Married	"
60	" 5	Kattie Vylan	22	Female	"	"	Ireland
61	" 5	Christina Wilson	18	"	"	Single	Germany
62	" 6	Frank Perry	39	Male	Black	"	United States
63	" 7	Lillie Hughes	24	Female	White	"	England
64	" 7	Jacob Cohen	7/12	Male	"	"	United States
65	" 7	Valentine Muller	37	"	"	Married	Germany
66	" 7	Catharine Muller	37	Female	"	"	"
67	" 7	Mettefeild Ibert	59	Male	"	"	"
68	" 7	Artolo Krouse	11/12	"	"	Single	"
69	" 7	Maud Brooks	20	Female	Black	"	Ireland
70	" 9	John Hyder	23	Male	White	"	Germany
71	" 9	Frum Wollman	17	Female	"	"	Foreign
72	" 9	Samuel Cohen	30	Male	"	Married	Russia
73	" 9	Ben. R. Morrow	39	"	"	"	United States

Occupation.	Residence.	Result.	
Bootblack	No. 39 Park street	Discharged	Feb. 27
"	No. 39 Thompson street	"	Mar. 12
	No. 94 Varick street	Died	Feb. 28
	Quarantine	Discharged	" 26
Minor	No. 69 Thompson street	"	" 19
Clerk	No. 301 West One Hundred and Twenty-seventh street	Died	" 11
Laborer	No. 82 Mulberry street	Discharged	" 12
	Quarantine	"	" 14
Minor	"	"	" 19
"	"	"	" 19
	No. 143 Mulberry street	"	" 14
	No. 9 Mulberry street	Died	" 16
	Quarantine	Discharged	" 19
Moulder	No. 150 Leonard street	"	Apr. 29
Ice boy	No. 143 Mulberry street	"	" 20
Purser	Quarantine	"	Mar. 31
Bricklayer	No. 105 East One Hundred and Second street	"	Apr. 2
Sailor	Quarantine	"	" 2
Horseshoer	No. 508 East Sixteenth street	"	" 5
Plumber	No. 1612 Avenue A	"	" 20
Bookbinder	No. 34 Greenwich avenue	"	" 20
Laborer	No. 32 Thompson street	"	" 20
"	No. 252 Morris avenue	"	" 25
Housewife	No. 508 East Sixteenth street	"	May 4
Actress	No. 304 West Twenty-seventh street	"	Apr. 26
Porter	No. 70 Sullivan street	"	May 13
Shoebinder	No. 16 First street	"	" 9
Minor	No. 13 Bayard street	Died	Apr. 13
Stonecutter	No. 1825 Second avenue	Discharged	June 1
	"	"	May 4
Bricklayer	"	"	Apr. 29
Minor	Quarantine	"	" 25
Actress	No. 44 Great Jones street	"	" 25
Brass-founder	No. 1249 Fulton avenue	"	June 1
	Quarantine	"	Apr. 25
Peddler	No. 13 Bayard street	"	" 25
Doctor	No. 199 Second avenue	"	" 21

No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
148	May 23	Pelama Leri	30	Female	White	Married	Italy
149	" 23	Annie Murray	29	"	"	Single	Ireland
150	" 25	Willie Roese	1/12	Male	"	"	
151	" 25	Francisco Staffini	40	"	"	Married	Italy
152	" 25	Lucia Roese	2 1/2	"	"	Single	United States
153	" 25	James Wood	25	"	"	Married	"
154	" 25	Mary Williams	3 1/2	Female	"	Single	"
155	" 27	Lena Franks	37	"	"	Married	Germany
156	" 28	Michael Craven	48	Male	"	"	Ireland
157	" 28	Nicholas Martinii	21	"	"	Single	Italy
158	" 30	Frederick Bruce	38	"	"	Married	United States
159	" 31	Amelia Altergott	1/12	Female	"	Single	Russia
160	June 1	Louis Ehlett	1 1/2	Male	"	"	United States
161	" 2	Amelia Algergott	1/12	Female	"	"	Russia
162	" 3	Alexander Orr	29	Male	Black	"	United States
163	" 5	William Hoff	4	"	White	"	"
164	" 7	Seman Cirkst	24	"	"	"	Austria
165	" 7	Mary Meyers	47	Female	"	"	Germany
166	" 10	—— Cineo	1 1/2 mo.	Male	"	"	
167	" 10	Mamie Cunie	2	Female	"	"	United States
168	" 11	Lina Kepp	19	"	"	"	"
169	" 11	Anna Kepp	22	"	"	"	"
170	" 11	John Kepp	53	Male	"	Married	Germany
171	" 11	Ralph Cocney	22	"	"	Single	"
172	" 12	James H. Cooper	23	"	"	"	United States
173	" 12	David Schwartz	23	"	"	"	Germany
174	" 12	Maria Rocco	2	Female	"	"	United States
175	" 13	Rachel Pelikrank	16	"	"	"	Austria
176	" 13	Otto Dage	1/12	Male	"	"	United States
177	" 13	Alonzo Prime	26	"	"	"	"
178	" 14	Hedwig Keuhn	16	Female	"	"	Poland
179	" 15	Charles Allen	37	Male	Black	Married	United States
180	" 15	John B. Bachilcka	33	"	White	"	Italy
181	" 16	Thomas S. Sinkil	29	"	"	"	United States
182	" 16	Magdalena Bissert	19	Female	"	Single	Germany
183	" 16	Franz Zudersick	24	Male	"	"	Austria
184	" 16	Bruno Bandusick	1/12	"	"	"	Germany

Occupation.	Residence.	Result.	
.....	No. 71 Thompson street.....	Discharged.....	June 15
Domestic.....	No. 364 West Twenty-fifth street.....	"	" 15
Minor.....	No. 212 Spring street.....	Died.....	.....
Tilelayer.....	No. 71 Thompson street.....	Discharged.....	June 15
Minor.....	No. 212 Spring street.....	"	" 8
Switchman.....	No. 747 East One Hundred and Forty-fifth street.....	Died.....	" 8
Minor.....	No. 174 East One Hundred and Twenty-second street.....	"	May 31
Housewife.....	No. 307 East One Hundred and Forty-fourth street.....	Discharged.....	June 1
Engineer.....	No. 947 Third avenue.....	"	July 1
Stonemason.....	No. 71 Thompson street.....	"	June 8
Engineer.....	No. 11 King street.....	"	" 10
Minor.....	Quarantine.....	Died.....	May 21
"	No. 231 East One Hundred and First street.....	"	June 15
"	Quarantine.....	Discharged.....	" 15
Waiter.....	No. 12 West One Hundred and Twenty-fifth street.....	"	July 25
Minor.....	No. 305 East Forty-fourth street.....	Died.....	June 14
.....	Quarantine.....	Discharged.....	" 27
.....	No. 216 Spring street.....	"	" 27
Minor.....	No. 28 Clark street.....	Died.....	" 27
"	"	Discharged....	July 11
Dressmaker.....	No. 229 East One Hundred and Third street.....	"	June 22
Laundress.....	"	"	" 22
Laborer.....	"	Died.....	" 14
"	No. 273 Hudson street.....	Discharged.....	" 27
Musician.....	No. 3 Minetta street.....	"	July 1
{Traveler, commercial.....}	No. 26 Avenue C.....	"	June 27
Minor.....	No. 273 Hudson street.....	Died.....	" 22
"	Quarantine.....	Discharged.....	" 27
"	No. 509 East Twelfth street.....	"	" 22
Light porter.....	No. 116 Macdougal street.....	"	" 27
.....	Quarantine.....	"	" 22
.....	No. 15 Minetta street.....	Died.....	" 22
Laborer.....	No. 408 West Sixteenth street.....	Discharged.....	July 18
Truckman.....	No. 49 Renwick street.....	"	" 18
Laundress.....	Quarantine.....	"	June 27
Laborer.....	"	"	" 27
Minor.....	"	"	July 18

No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
185	June 16	Sarah E. Levino	32	Female	White	Married	United States
186	" 17	Henry Kons	45	Male	"	"	Germany
187	" 17	Annie Hoff.	1½	Female	"	Single	United States
188	" 18	Herbert L. Jaegar	22	Male	Black	Married	"
189	" 18	Lena Meyer	24	Female	White	Single	"
190	" 18	Elizabeth Birk	17	"	"	"	Germany
191	" 18	Clara Harpman	20	"	"	"	Bohemia
192	" 20	Sera Pearson	22	"	"	"	Sweden
193	" 20	Katherine Cunia	..	"	"	Married	Italy
194	" 21	Mary German	20	"	"	Single	
195	" 24	Preston Deese	18	Male	Black	"	United States
196	" 24	James Doyle	26	"	"	"	"
197	" 28	Morris Stuart	23	"	"	"	"
198	" 28	William T. Jones	25	"	White	"	"
199	" 27	Mary Rossi.	48	Female	"	"	"
200	" 27	Margaret Harrigan	16	"	"	"	Ireland
201	" 29	Joseph Cruger	36	Male	"	"	
202	July 7	Charles Mitchel	30	"	"	Married.	France
203	" 7	Michael Maguire	26	"	"	"	Ireland
204	" 11	William Davis	25	"	Black	Single.	United States
205	" 12	Rosina Gambosa	29	Female	White	Married	Italy
206	" 12	Anna Bandusek	3	"	"	Single.	Germany.
207	" 12	Clara Bandusek	5	"	"	"	"
208	" 14	Frank Gambosa	21	Male	"	"	Italy.
209	" 13	Charles Johnson	15	"	Black	"	United States
210	" 15	James Plant	75	"	White	Married.	"
211	" 14	George Bishop	2	"	"	Single.	"
212	" 15	Beckie Levy	10	Female	"	"	"
213	" 15	Jacob Levy	8	Male.	"	"	"
214	" 15	Henry Levy	5	"	"	"	"
215	" 15	David Levy	2	"	"	"	"
216	" 15	John Bruschi	41	"	"	Married.	Italy
217	" 16	Mabel Cromwell	28	Female	"	"	United States
218	" 18	Kasimir Sankswski	25	Male.	"	Single.	Russia
219	" 19	Madeline Massa	30	Female	"	Married.	Italy.
220	" 21	Joseph Gallipole	18	Male.	"	Single.	"
221	" 21	John Robinson	30	"	"	"	Ireland

Occupation.	Residence.	Result.	
Milliner.....	Trinity Hospital; No. 94 Charlton street.....	Discharged.....	July 2
Shoemaker.....	No. 131 Avenue B.....	"	" 2
Minor.....	No. 305 East Forty-fourth street.....	"	June 27
Longshoreman...	No. 222 West Seventeenth street.....	"	" 27
Feather-maker...	No. 216 Spring street.....	"	July 6
Minor.....	Quarantine.....	"	June 27
"	"	"	" 27
.....	Bellevue Hospital; No. 408 Third avenue.....	"	July 1
Housewife.....	No. 28 Clark street.....	"	" 11
.....	No. 234 East One Hundred and Twenty-eighth street.....	"	" 18
Laborer.....	New York Hospital.....	"	" 8
Sailor.....	Station-house, Sixth Precinct.....	"	" 8
Banjo player.....	No. 10 Minetta street.....	Died.....	" 3
Engineer.....	No. 11 West One Hundred and Fifteenth street.....	"	" 6
.....	No. 28 Clark street.....	Absconded.....	.....
Domestic.....	No. 114 West Thirty-fourth street.....	Discharged.....	July 13
.....	Quarantine.....	"	" 13
Hotel porter.....	New York Hospital; No. 63 Dowling street.....	"	Aug. 1
Laborer.....	New York Hospital; No. 134 Tenth avenue.....	"	July 18
Cook.....	City Hospital; No. 89 Thompson street.....	Died.....	" 22
Housewife.....	No. 89 Thompson street.....	Discharged.....	" 18
Minor.....	Quarantine.....	"	" 18
"	"	"	" 18
Laborer.....	No. 89 Thompson street.....	"	" 25
Driver.....	No. 78 East One Hundred and Thirty-first street.....	"	Aug. 1
Broker.....	New York Hospital.....	Died.....	July 17
Minor.....	No. 235 West Eighteenth street.....	Discharged.....	Aug. 5
"	No. 25 Pitt street.....	"	" 3
"	"	"	" 3
"	"	Died.....	July 21
"	"	Discharged.....	Aug. 15
.....	No. 109 Sullivan street.....	Absconded.....	
Domestic.....	No. 89 Thompson street.....	Discharged.....	Aug. 1
.....	Quarantine.....	"	" 1
Housewife.....	No. 89 Thompson street.....	{Died at Reception Hospital..}	July 19
Shoeblack.....	St. Luke's Hospital; No. 89 Thompson street.....	Discharged.....	Aug. 29
Park Policeman..	No. 169 East Ninety-second street.....	"	" 5

No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
222	July 24	Rosie Staffino	4/12	Female	White	Single	United States
223	" 24	Vincent Staffino	2	Male	"	"	"
224	" 24	Lou Giantaghim	3	Female	"	"	"
225	" 24	Frank Giantaghim	4/12	Male	"	"	"
226	" 25	George Scheler	47	"	"	Married	Germany
227	" 26	R. Giarrhaghim	8/12	"	"	Single	United States
228	" 27	Isaac T. Parker	36	"	"	"	"
229	Aug. 3	Owen Maguire	23	"	"	Married	"
230	" 4	Samuel Weisenfeld	1	"	"	Single	"
231	" 5	Carrie Spicer	21	Female	Black	"	"
232	" 5	Rosie Fannagan	6	"	White	"	"
233	" 5	Henry Vullman	64	Male	"	"	Germany
234	" 5	Clementina Marro	29	Female	"	Married	Italy
235	" 6	Mrs. Salamone	23	"	"	"	"
236	" 5	Irene Helmer	23	"	"	Single	United States
237	" 8	John Edwards	28	Male	"	"	England
238	" 8	Carman Inesaito	35	"	"	"	Italy
239	" 8	Luigi Boglien	56	"	"	Married	France
240	" 7	William Geiger	11/12	"	"	Single	United States
241	" 8	Anna Fisher	3	Female	"	"	"
242	" 6	Carrie Warren	26	"	Black	Married	"
243	" 9	Samuel R. Hill	49	Male	White	"	"
244	" 9	Anna Gavin	42	Female	"	"	Ireland
245	" 10	Joseph Daueri	32	Male	"	"	Italy
246	" 10	Lizzie Zemmerman	4	Female	"	Single	United States
247	" 10	Baptist Bonlette	28	Male	"	"	Switzerland
248	" 10	William Heineman	36	"	"	"	United States
249	" 11	Rosa Rossi	30	Female	"	"	Italy
250	" 11	Francisco Vuncu	28	Male	"	"	"
251	" 11	John Milliken	37	"	"	Married	Ireland
252	" 11	Louisa Gatto	1/12	Female	"	Single	United States
253	" 11	Dorothia Holman	61	"	"	Married	Germany
254	" 12	Jaurie Demak	2	"	"	Single	Italy
255	" 12	Louis Magginla	30	Male	"	Married	"
256	" 13	Seconda Bastiano	22	"	"	Single	"
257	" 14	Mary Klabor	24	Female	"	Married	United States
258	" 15	Mary Extipola	20	"	"	"	Italy

Occupation.	Residence.	Result.	
Minor.....	No. 530½ Broome street.....	Discharged....	Aug. 3
"	"	Died	July 25
"	"	Discharged.....	Aug. 27
"	"	"	" 27
Carpenter.....	Corner Kelly and One Hundred and Sixty-fifth streets.....	"	Sept. 1
Minor.....	No. 530½ Broome street.....	"	Aug. 1
Compositor.....	No. 96 Bowery.....	"	" 3
Tinsmith	No. 48 Thompson street.....	Died	" 1
Minor.....	No. 25 Pitt street	"	" 5
Chambermaid....	No. 80 West Houston street.....	Discharged.....	Sept. 15
Minor.....	No. 37 Thompson street.....	Died (at home).....	Aug. 5
Stableman	No. 221 Spring street.....	Died	" 11
Housekeeper....	No. 43 Sullivan street.....	Discharged.....	" 24
"	No. 71 Thompson street.....	{Died at Reception Hospital..}	" 4
Seamstress.....	No. 206 St. Nicholas avenue.....	Discharged.....	Sept. 8
Button-maker....	Gouverneur Hospital; No. 383 Broome street	"	Aug. 22
Ragman.....	No. 39 Thompson street.....	"	" 29
Watchman.....	No. 505 Broome street	Died	" 15
Minor.....	No. 968 East One Hundred and Sixty-first street.....	Discharged.....	Sept. 1
"	No. 74 South Fifth avenue.....	"	" 1
Laundress.....	No. 245 Bleecker street.....	"	" 1
Mec. Engineer...	Steamship "Orizaba".....	"	" 1
.....	No. 192 Spring street.....	"	Aug. 19
.....	No. 101 West Houston street.....	Died (at home).....	" 10
Minor.....	No. 221 West Houston street	Died	" 15
Cook.....	No. 26 South Fifth avenue.....	Discharged	" 29
Broom-maker....	No. 512 Broome street.....	"	Sept. 12
.....	No. 67 Sullivan street.....	Died (at home).....	Aug. 11
Laborer	No. 61 Mulberry street.....	Discharged.....	" 29
Carpenter	No. 1303 Third avenue.....	"	Sept. 1
Minor.....	No. 41 Thompson street.....	Died	Aug. 15
.....	No. 88 Horatio street	Discharged.....	" 25
Minor.....	No. 63 Sullivan street	Absconded	
Restaurant.....	No. 108 East One Hundred and Thirtieth street.....	Discharged.....	Sept. 1
Candy.....	No. 121 Thompson street.....	"	Aug. 29
Housewife.....	No. 69 Pike street.....	"	" 26
"	No. 31 Thompson street.....	"	Sept. 1

No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
259	Aug. 15	Bastraur Extipola.....	4/12	Female....	White.....	Single.....	Italy .....
260	" 17	Edna Holtamann.....	4/12	"	"	"	United States....
261	" 20	Arthur Zimmermann	11/12	Male.....	"	"	" ....
262	" 20	Eliz. Zimmerman.....	29	Female....	"	Married.....	" ....
263	" 22	Minnie Fisher	4	"	"	Single.....	" ....
264	" 23	Kate Fisher	26	"	"	Married.....	Germany.....
265	" 24	Fred'k Albricht	27	Male.....	"	"	United States....
266	" 23	Tony Parro.....	27	"	"	Single.....	Italy .....
267	" 25	Frank Woolerer	21	"	"	"	United States....
268	" 25	John D. Hardman.....	34	"	"	Married.....	" ....
269	" 26	Angelo Gigliello	23	"	"	Single.....	Italy ....
270	" 26	Augustin Vunciat.	2	"	"	"	United States....
271	" 26	Thomas Lumbarti.....	4/12	"	"	"	Italy .....
272	" 31	Jonaz Pape.	34	"	"	Married.....	" .....
273	" 31	Maria Garma	28	Female....	"	"	" .....
274	" 31	Archangelo Nagari..	25	Male.....	"	Single.....	" .....
275	" 31	Rox Malle.....	29	"	"	Married.....	" .....
276	" 31	Tony Malle.....	2	"	"	Single.....	United States....
277	" 31	Mannie Malle.....	4/12	Female....	"	"	" ....
278	Sept. 3	John McGarry.....	27	Male.....	"	"	Ireland..... ...
279	" 4	Leonard Baumrarden.....	3	"	"	"	United States....
280	" 4	Annie Dutz.....	6	Female....	"	"	" ....
281	" 4	Philip Alt	11/12	Male.....	"	"	" . ..
282	" 6	James Thompson	20	"	"	"	" ....
283	" 14	Charles Mohr.....	35	"	"	"	Germany.....
284	" 15	Thomas Moore.	22	"	Black	"	United States....
285	" 16	Mary Cairo.....	13	Female....	White.....	"	Italy .....
286	" 16	Margaret Laughlin.....	30	"	"	Married.....	Ireland.....
287	" 15	John H. Bashford.....	22	Male.....	"	Single	Nova Scotia.....
288	" 15	Anna Tumicinelli.....	4/12	Female....	"	"	United States....
289	" 16	Cesaro Serianni	4/12	Male.....	"	"	Italy .....
290	" 19	Edward Krell.....	21	"	"	"	United States....
291	" 19	Clara Buchta	6	Female....	"	"	" ....
292	" 19	Bertha Buchta	10	"	"	"	" ....
293	" 19	Anna Buchta.....	11/12	"	"	"	" ....
294	" 19	Frank Moher	7	Male.....	"	"	" ....
295	" 21	Hans Moher.....	10	"	"	"	" ....

Occupation.	Residence.	Result.	
Minor	No. 31 Thompson street	Died at Reception Hospital	Aug. 22
"	No. 75 Sullivan street	Died	" 21
"	No. 221 West Houston street	Discharged	Sept. 12
	"	"	" 12
Minor	No. 74 South Fifth avenue	"	" 1
	"	"	" 1
Baker	Steamship "Iroquois"	Died	" 1
Laborer	No. 16 Thompson street	Discharged	" 8
Street sprinkler	No. 69 Pike street	"	" 8
Express driver	No. 57 Downing street	"	" 12
Rag dealer	No. 39 Thompson street	"	" 3
Minor	No. 86 Mulberry street	Died	" 3
"	No. 54 Broome street	Died at Reception Hospital	Aug. 27
	No. 203 Elizabeth street	Discharged	Sept. 15
	No. 31 Thompson street	"	" 15
Stonebreaker	"	"	" 12
Storekeeper	No. 237 West Forty-sixth street	Died	" 1
Minor	"	Discharged	" 22
"	"	"	Oct. 20
Laborer	No. 4 West Forty-fourth street	"	Sept. 15
Minor	No. 327 West Sixty-seventh street	"	" 15
"	No. 312 West Sixty-ninth street	"	" 29
"	No. 329 West Sixty-seventh street	Died	" 9
Brakeman	"	Discharged	" 15
	No. 474 Robbins avenue	"	Oct. 12
	No. 94 Lawrence street	Died	Sept. 22
Minor	No. 116 Mulberry street	Discharged	" 22
Dressmaker	No. 349 West street	"	Oct. 17
Clerk	No. 8 First street	"	Sept. 28
Minor	No. 239 Elizabeth street (rear)	"	Oct. 29
"	No. 160 Bleecker street	"	" 17
Gardener	Riverside Hospital	"	" 13
Minor	No. 2980 Third avenue	"	" 13
"	"	"	Sept. 29
"	"	"	" 29
Laborer	No. 476 Robbins avenue	"	Oct. 12
Minor	"	"	" 12

No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
296	Sept. 22	Guessippi Pasania.....	1/12	Male.....	White.....	Single.....	Italy.....
297	" 22	Joseph Smith.....	25	"	"	"	United States....
298	" 22	Thomas Daering.....	27	"	"	"	" ....
299	" 23	Mannie Eugbert.....	3	Female....	"	"	" ....
300	" 23	August Sjolin.....	52	Male.....	"	.....	Germany.....
301	" 23	James Geary.....	26	"	"	.....	United States....
302	" 24	W. H. Gromeirer.....	30	"	"	.....	Germany.....
303	" 25	Gottlieb Buchta.....	41	"	"	Married.....	" .....
304	" 27	Gus. Bearans.....	19	"	"	Single.....	United States....
305	" 29	William Wilson.....	23	"	Black.....	"	" ....
306	" 29	Agnes Dowe.....	12	Female....	White.....	"	" ....
307	Oct. 1	Albert Tyler.....	24	Male.....	"	"	" ....
308	" 2	Agnes Walters.....	5	Female....	"	"	" ....
309	" 3	Lingi Broua.....	45	Male.....	"	Married.....	Italy.....
310	" 4	Peter Anisko.....	29	"	"	"	" .....
311	" 5	William Spoor.....	32	"	"	Single.....	United States....
312	" 7	Antonio Gaglietto.....	24	"	"	"	Italy.....
313	" 8	Antony Decamile.....	24	"	"	"	" .....
314	" 9	Charles Walther.....	38	"	"	"	Germany.....
315	" 10	Johanna Flory.....	24	Female....	"	Married.....	United States....
316	" 11	Mary Fichen.....	1/12	"	"	Single.....	" ....
317	" 12	Joseph W. Davis.....	44	Male.....	"	"	" ....
318	" 13	William Cannon.....	30	"	"	Married.....	" ....
319	" 14	Daniel Sullivan.....	37	"	"	"	Ireland.....
320	" 14	Rosa Zahn.....	20	Female....	"	Single.....	United States....
321	" 15	Catharine Kayes.....	60	"	"	Married.....	Ireland.....
322	" 18	Ellen Geary.....	28	"	"	"	" .....
323	" 18	Mary Geary.....	1/12	"	"	Single.....	United States....
324	" 21	Jacob Helmers.....	42	Male.....	"	Married.....	" ....
325	" 21	Deborah Rudolph.....	1/12	"	"	Single.....	" ....
326	" 22	George Rudolph.....	4	"	"	"	" ....
327	" 22	Mary Cannon.....	9	Female....	"	"	" ....
328	" 23	Kattie Cannon.....	6	"	"	"	" ....
329	" 23	Peter Cannon.....	3	Male.....	"	"	" ....
330	" 23	Willie Cannon.....	1/12	"	"	"	" ....
331	" 23	Mary Stern.....	24	Female....	"	"	" ....
332	" 25	Antonio Lorarri.....	42	Male.....	"	"	Italy.....

Occupation.	Residence.	Result.	
Minor	No. 114 New Henry street	Died at home	Sept. 22
"	No. 312 West Sixty-ninth street	Discharged	Oct. 6
	No. 242 Forest avenue	"	" 6
Minor	No. 422 Robbins avenue	"	" 17
	No. 314 West One Hundred and Twenty-fifth street	"	" 12
	No. 1221 Washington avenue	"	" 3
	No. 205 East Ninety-fifth street	"	" 10
Butcher	No. 2980 Third avenue	"	" 10
Laborer	No. 8 First street	"	" 10
"	No. 408 West One Hundred and Fiftieth street	Died	" 8
Minor	No. 85 Roosevelt street	Discharged	" 20
Laborer	No. 120 Manhattan avenue	"	Nov. 3
Minor	No. 21 Thompson street	"	Oct. 24
Laborer	No. 68 Crosby street	Died at residence	" 4
Tailor	No. 116 Mulberry street	Discharged	" 22
Engineer	Disinfecting-house	"	Nov. 14
Tailor	No. 111 Mulberry street	"	" 7
Laborer	No. 112 Mulberry street	"	Oct. 22
Baker	Bellevue Hospital	Died	" 13
Domestic	No. 114 Mulberry street	Discharged	" 24
Minor	No. 583 East One Hundred and Forty-seventh street	Died at home	" 11
Truckman	No. 509 Broome street	Discharged	" 24
Laborer	2464 Arthur avenue	Died at home	" 13
"	No. 537 East One Hundred and Thirty-fifth street	Discharged	Nov. 7
Housewife	No. 65 Lewis street	"	Oct. 31
"	No. 352 East Seventy-eighth street	Died	" 24
"	No. 1221 Washington avenue	Discharged	" 27
Minor	"	"	" 27
Laborer	No. 427 East Fourteenth street	"	Nov. 14
Minor	No. 533 East Twelfth street	Died	Oct. 30
"	"	Discharged	Nov. 14
"	No. 2464 Arthur avenue	"	" 17
"	"	Died	Oct. 29
"	"	Discharged	Nov. 10
"	"	Died	" 1
Housewife	No. 533 East Twelfth street	Discharged	Oct. 31
Laborer	No. 41 Thompson street	Died at home	" 23

No.	Date of Admission.	Name.	Age.	Sex.	Color.	Civil Condition.	Nativity.
333	Oct. 25	Renedetta Osmo.....	2	Male.....	White.....	Single.....	United States....
334	" 25	Kattie Smith	30	Female....	"	"	" ....
335	" 25	James Mesla.....	1/12	Male.....	"	"	" ....
336	" 25	Nellie Reily	25	Female....	"	Married.....	" ....
337	" 25	Vincenco Paglio.....	1	Male.....	"	Single.....	" ....
338	" 25	Mary Lesch	21	Female....	"	Married.....	" ....
339	" 27	James Martin.....	39	Male.....	"	Single.....	Italy..... .....
340	" 28	Smello Toolta.....	30	"	"	Married.....	" .....
341	" 28	Carmine Castilana	1/12	Female....	" .. .	Single.....	United States....
342	" 28	Thomas Madden.....	33	Male.....	"	"	" ....
343	" 29	Thomas Cannon.....	37	"	"	"	" ....
344	" 29	James Doyle.....	25	"	"	"	Ireland.....
345	" 29	Dennis O'Keefe.....	28	"	"	Married... .	" .....
346	" 30	Daniel Mack	23	"	"	"	Canada.... .....
347	" 31	Jon. Connell.....	28	"	"	"	Ireland.....
348	" 31	Ann Connell.....	1/12	"	"	Single.....	United States....
349	Nov. 1	John Gorman.....	24	"	"	Married.....	Ireland.....
350	" 2	Annie Piepjunge.....	39	Female....	"	"	Germany.....
351	" 3	Eliza Rudolph	28	"	"	"	" .....
352	" 3	George Helmers.....	4	Male.....	"	Single.....	United States....
353	" 4	Lawrence Walsh.....	35	"	"	Married.....	Ireland.....
354	" 7	Incarnato Zabbino.....	5	Female....	"	Single.....	United States....
355	" 10	John Buckley.....	28	Male.....	"	Married.....	" ....
356	" 10	August Gorkeus	56	Female....	"	"	Germany.....
357	" 10	Mary Tully	29	"	"	"	Ireland .....
358	" 14	Peter French.....	31	Male.....	"	Single.....	" .....
359	" 16	William Walsh.....	3	"	"	"	United States....
360	" 16	Peter Whalen....	31	"	"	Married.....	" ...
361	" 16	Annie Flaherty	17	Female....	"	Single.....	" ....
362	" 18	J. C. Van Dyke.....	49	Male.....	"	"	" ....
363	" 18	Mary Carolan	27	Female....	"	Married.....	Ireland.....
364	" 22	George A. Marshall.....	27	Male.....	"	Single.....	United States....
365	" 22	Stephen Frigger	1/12	"	"	"	Foreign .....
366	" 23	James Desmond.....	24	"	"	"	United States....
367	" 23	James Franklin.....	10	"	"	"	England.....
368	" 29	Daniel Scanlon	28	"	"	"	Ireland.....
369	Dec. 2	Maggie Riley.....	20	Female....	"	"	" .....

Occupation.	Residence.	Result	
Minor	No. 114 Mulberry street	Discharged	Oct. 31
Domestic	No. 288 Mulberry street	"	Nov. 3
Minor	No. 112 Mulberry street	"	" 23
Housewife	No. 2464 Arthur avenue	"	" 7
Minor	No. 112 Mulberry street	"	" 7
Housewife	No. 2324 Bathgate avenue	"	Dec. 1
Laborer	No. 65 Mulberry street	"	Nov. 10
"	No. 123 Mulberry street	"	" 10
Minor	No. 114 Mulberry street	Died	" 5
Moulder	No. 537 East One Hundred and Thirty-fifth street	"	" 3
Rock driller	No. 500 East Seventy-seventh street	"	" 1
Stone-cutter	No. 528 East One Hundred and Thirty-fifth street	Discharged	" 7
Freight-handler	No. 563 East One Hundred and Thirty-fifth street	Died	Oct. 30
Moulder	Bellevue Hospital	Discharged	Nov. 10
Longshoreman	No. 171 Perry street	"	" 21
Minor	"	"	" 17
Drillman	No. 763 East One Hundred and Sixty-fifth street	"	" 21
Dressmaker	No. 400 East Seventy-sixth street	Died	Dec. 5
Housekeeper	No. 533 East Twelfth street	Discharged	Nov. 14
Minor	No. 427 East Fourteenth street	"	" 17
Laborer	No. 802 Ninth avenue	"	" 17
Minor	No. 65 Mulberry street	"	" 17
Hatter	No. 145 West Sixtieth street	"	Dec. 12
Fishman	No. 30 Eighth avenue	"	Nov. 21
Housewife	No. 171 Perry street	Died	" 18
Moulder	Bellevue Hospital	D scharged	Dec. 12
Minor	No. 446 West Fifty-third street	Died	Nov. 23
Moulder	No. 126 East One Hundred and Twenty-ninth street	Discharged	Dec. 15
Servant	Kingsbridge road	Died	" 8
Engineer	Pier 26, East river	Discharged	" 1
Housekeeper	No. 171 Perry street	"	" 1
Post-office clerk	No. 929 Sixth avenue	"	" 15
Minor	Quarantine	Died	Nov. 25
Laborer	No. 119 East Eighty-eighth street	Discharged	Dec. 15
Minor	Quarantine	"	" 15
Longshoreman	No. 231 West Sixty-third street	"	" 8
Housewife	No. 145 West Sixtieth street	"	" 8

HEALTH DEPARTMENT,
DIVISION OF PATHOLOGY, BACTERIOLOGY AND DISINFECTION,
NEW YORK, December 31, 1892.

CYRUS EDSON, M. D., *Sanitary Superintendent:*

SIR—I have the honor to forward herewith a report of the work performed by the Division of Pathology, Bacteriology and Disinfection since its organization. The Division was created by a resolution of the Board passed on September 9, 1892, and the work of the Division was partially organized soon thereafter.

After my appointment as Chief Inspector of this Division, two Assistant Inspectors were assigned to the service and the disinfecting plant at East Sixteenth street was put in my charge. These Inspectors were detailed for duty there to supervise the disinfection of articles brought to Sixteenth street, and to take charge of the autopsy room which was fitted up in the Reception Hospital.

In addition to the work performed at the Disinfecting Station, the work of this Division has been confined largely to biological investigations and especially experimental work on disinfection.

Several series of experiments have been undertaken to determine the germicidal value of certain new disinfectants and the efficiency of various processes of disinfection.

Much time was devoted in September and October to biological examinations, especially with reference to the diagnosis of Asiatic cholera, and to the pathological work connected with the deaths (the result of cholera or allied diseases) which occurred during the outbreak in this city.

On taking charge of the disinfecting plant at Sixteenth street (which was originally designed several years ago by Dr. T. Mitchell Prudden and myself, then Consulting Pathologists to the Department), I found that in numerous respects the plant had not been completed, and that although efficient work might be done there, yet it must be done under great disadvantages. I immediately submitted plans to the Board for the completion of the plant as originally designed, with certain improvements and some additional equipment. These plans were at once approved and the changes and improvements contemplated have been completed, and although it is, I believe, now the most efficient plant of its kind in this country, and although it possesses facilities for doing all kinds of work which this Department may be called upon to perform at a disinfecting station, yet it is a serious question whether its capacity will be great enough to meet the demands which the more rigorous requirements of the Department regarding disinfection will throw upon it.

CHANGES AT DISINFECTING STATION.

Chief among the alterations and additions to the furniture and equipment of the Disinfecting Station are:

1st. A boiler has been placed in position in the rear room of the Disinfecting Station, which is capable of supplying all parts with an abundance of hot water. Necessary piping in connection with this has been placed in position to supply the sinks in both the front and rear rooms with hot water, and also provision has been made for hose connections in both rooms.

2d. A cylindrical iron wash-boiler, 6 feet in diameter and 3 feet deep, has been placed in the front room near the partition dividing the plant, and has been provided with a hood, which extends to its centre so that it opens on one side into the disinfected chamber and on the other side into the disinfected portion of the plant. It is arranged so that the water which it contains may be

heated by jets of steam, and the necessary connections for supplying steam to it have been made with the boiler in the rear room. Articles which it is desired to disinfect by boiling can thus be introduced into the boiler on the infected side, and after necessary treatment can be removed from the boiler into the clean side of the chamber. The boiler is fitted with feed and drain pipes so that it can be easily filled or emptied in half an hour, and when filled with water this may be brought to the boiling point through the steam connections in about the same time.

The use of this apparatus is at present limited somewhat, inasmuch as valuable goods cannot be entrusted to it on account of the rust it deposits. I have not yet been able to obtain any preparation to coat the interior to avoid this difficulty.

3d. The use of the disinfecting chamber has been greatly extended by the addition of a track and car so arranged that the car may be drawn out on the infected side, loaded with the articles to be subjected to the process of disinfection, and then, when loaded, run into the chamber, and, after the process is completed, withdrawn on the clean side and unloaded. The car is provided with movable galvanized-iron racks carrying a large number of hooks, galvanized to prevent rusting, and when these are in place the car with racks occupies the whole interior space of the chamber. It is arranged so that the disinfecting chamber may be employed with or without the car, as when for any reason it is necessary to use the chamber without the car, it can be drawn out upon the tracks, sections of the track removed and the doors closed. This apparatus greatly facilitates the work in disinfection, much more than doubles the capacity of the chamber and makes possible much more rapid work in disinfection. Considerable time was formerly consumed in cooling the chamber before the men could enter it to remove its contents. Now the car is loaded and unloaded outside of the chamber and no time is lost in this way. Then, further, the racks are so arranged that the number of articles which may be exposed at one time and disinfected is very largely increased, and also the rapidity with which goods can be loaded and unloaded.

4th. Agate-ware sinks for the use of the men employed at the plant have been placed, one in the front and one in the rear room, and each is provided with faucets supplying hot and cold water and carbolic solution.

5th. Sufficient piping and hose connections have been placed so that an abundance of hot and cold water and disinfecting solutions (corrosive sublimate and carbolic acid) may be delivered at any part of the plant.

6th. The tanks for disinfecting solution have been emptied, repaired and thoroughly cleaned and refilled, one with a solution of carbolic acid of a strength of 1 to 40 ; the other with a solution of corrosive sublimate of a strength of 1 to 2,000. Appropriate piping and hose connections have been attached to these tanks.

7th. A galvanized-iron pipe, 8 inches in diameter, has been carried from the discharge of the Sturtevant blower to one of the ventilator flues near the ceiling, so that when the steam is withdrawn from the disinfecting chamber, after disinfection has been completed, it may be carried outside the building instead of being thrown into the room.

8th. Two large galvanized-iron ventilators have been placed in position, one on each side of the plant, to remove the steam escaping during the process of disinfection and to ventilate the room. This work, however, they only partially accomplish.

9th. Cross connections have been made between the boiler in the Willard Parker Hospital and the hot-water boiler, so that steam can be supplied from either source.

10th. A number of minor changes and improvements have been made, which facilitate greatly the labor of keeping the plant in proper order. Among these may be mentioned the provision of drains for thoroughly carrying off water from the floor after the rooms have been flushed with water or disinfecting fluids; speaking-tube connections between the two sides of the plant, with electric call bells connecting the sides together, and both sides with the boiler-room of the Willard Parker Hospital; carpenter work in erecting and repairing closets, arranging store-rooms under the platform, painting, etc.

11th. Finally, an autopsy room has been provided in the Reception Hospital and appropriately furnished. This was designed for temporary use during the cholera outbreak, and has well answered its purpose, both at that time and more recently since the outbreak of typhus fever. A room in the Reception Hospital was provided with a zinc floor and side casing, and was supplied with drains so that the floor and side walls for some distance up could be washed down with disinfecting solutions. A sink was put in position, provided with hot and cold water faucets; a suitable autopsy table made and two tanks for sublimate and carbolic solutions prepared and mounted with proper supply connections.

WORK PERFORMED AT DISINFECTING STATION.

The routine work done at the Disinfecting Station, although necessarily interrupted by the repairs and improvements in process, has shown a steady increase in amount, and has been performed in a more and more satisfactory manner. For carrying articles to and from the plant, there have been placed at my disposal three wagons which were originally designed for cholera ambulances. Two of these are employed to bring infected goods to the plant and are of yellow color with black curtains. The one which is used to return disinfected goods to their owners is white with white curtains. The contrast in color has been utilized to make impossible any confusion between infected and clean vehicles. Experience has shown that the capacity of these is far too little to answer the requirements of the service and that they are also too few in number. There should be immediately provided at least three additional wagons, with horses, harness, etc., of much heavier character and larger capacity than those now in use. Without increased equipment of this kind, it will be impossible for this Division to efficiently carry out the policy on which the Board has determined, regarding the treatment of articles infected by contagious diseases.

SUITS FOR DRIVERS AND MEN AT DISINFECTING PLANT.

The drivers and men at the disinfecting plant have been provided with overall suits, which they wear while on duty and which are frequently disinfected by passing through the disinfecting chamber. Those on the infected side wear suits of brown duck, while those on the clean side wear suits of white duck. The contrast in color here again makes more difficult the mingling of the men or their passage, while on duty, from one to the other side of the plant.

WORK PERFORMED AT PLANT SINCE OCTOBER 1, 1892.

During the month of October, 81 lots of goods were brought to the plant for disinfection or destruction; in November, 91 lots, and in December, 123 lots, a total of 295 lots, representing about 12,000 pieces. It will, therefore, be seen that the routine work done at the station has shown a steady increase.

CIRCULARS ON CONTAGIOUS DISEASES, DISINFECTION, DISINFECTANTS, ETC.

A number of circulars for general distribution have been prepared under my direction on Disinfection in the Contagious Diseases and on Disinfection and Disinfectants. I desire to acknowledge my indebtedness in the preparation of these circulars for kind assistance rendered especially by Dr. T. Mitchell Prudden, Consulting Physician to this Department in the Division of Pathology, Bacteriology and Disinfection ; by Dr. Alexander Lambert and by Dr. H. Koplik. The circulars which have been prepared are appended herewith. The first one is in regard to Disinfection in Cholera, the second is on Contagious Diseases and the third a general circular on Disinfection and Disinfectants.

THE PATHOLOGICAL AND BACTERIOLOGICAL INVESTIGATIONS DURING THE OUTBREAK OF EPIDEMIC CHOLERA.

In the bacteriological work I secured the co-operation of Dr. Edward K. Dunham, of Carnegie Laboratory, who has had large experience in biological work connected with Asiatic cholera at the Hygienic Institute in Berlin, and I desire to acknowledge here my indebtedness to him for biological investigations in this connection. His report is included herewith.

As bearing upon what is to follow, I desire to direct attention to certain features in the diagnosis of Asiatic cholera. It is admitted by all clinicians of experience that a differential diagnosis between sporadic and Asiatic cholera cannot be made on the clinical history alone. In the absence of an epidemic of Asiatic cholera, or the proof of direct exposure to infection from Asiatic cholera, no one is justified on the clinical history alone in making a diagnosis of the disease. In the beginning of an epidemic of Asiatic cholera the first cases are always doubtful cases, and often their true nature is not recognized until the disease has become epidemic.

It is not very unusual to see cases of sporadic cholera presenting the exact clinical picture which is presented in the severest types of epidemic cholera, and, on the other hand, it has been the testimony of all observers in the recent epidemics in Europe, that frequently epidemic cholera takes such a mild form, and resembles so slightly the severest types of the disease, that any suspicion as to its nature would not be aroused, were it not for the existence of the epidemic, or the results of biological examinations.

In 1884 the German Government sent a commission, of which Dr. Robert Koch was the head, to Italy, Egypt and India, to study Asiatic cholera, and to determine, if possible, its cause. A peculiar organism was found in the intestinal contents and in the intestinal discharges of cases of cholera, occurring in the epidemics in Italy and Egypt, and also in India, where the disease is epidemic. This organism, because of its curved form, was originally called the cholera comma-bacillus, but is more properly called the cholera spirillum. Koch showed by his investigation that this organism was present almost in pure culture in the intestinal contents and in the intestinal discharges from cholera patients during the height of the disease, that it bore a definite relation to the course of the disease, appearing with severe symptoms and disappearing as severer manifestations passed away ; that it was never found in any other disease, and that it might be cultivated in various substances outside of the living body.

Several other micro-organisms were afterward described by other observers (one of which occurs in the human mouth, another in a form of sporadic cholera, a third in stale cheese), which resemble very closely in their morphological appearance the cholera spirillum. But when all the

biological characteristics of these various organisms are considered, they can with great certainty and ease be differentiated from each other.

It is now admitted by all prominent bacteriologists of the world, so far as I am aware, that the spirillum of Koch is absolutely characteristic and pathognomonic of Asiatic cholera, and that its biological characteristics differentiate it with certainty from all other micro-organisms. When this organism is found, the diagnosis does not remain longer a question of opinion, but becomes a scientific fact, regarding which there can be, among competent observers, no difference of opinion. To determine the nature of the organisms, however, it is necessary to not merely examine microscopically the intestinal contents or discharges, but to isolate and cultivate the spirillum in suitable media, and to study its characteristics. This process requires for the identification of the cholera spirillum in different cases, according to the conditions, from two to four days.

The second occasion in the history of cholera epidemics in any part of the world in which biological examinations were practically resorted to for the diagnosis and exclusion of this disease, was in the cholera epidemic which occurred at the New York Quarantine Station in 1887, Dr. William M. Smith, then Health Officer, brought to me culture tubes inoculated from the intestinal contents of a child who had died with what had apparently been cholera morbus. The vessel from which the child had been removed was supposed to be free from infection, although she had sailed from an infected port. Dr. Smith requested an opinion as to whether the disease which caused death was sporadic or epidemic cholera, and offered to hold the vessel until the question was determined. The examination by three independent observers (Dr. Prudden, Dr. Weeks and myself) showed at the end of forty-eight hours that the disease was Asiatic cholera. Four hundred immigrants were then removed from the vessel, and several days later a number of other cases occurred among them. Asiatic cholera was then only excluded from New York City by reason of the biological examinations.

In view of the above facts, the importance of biological examinations in the diagnosis of Asiatic cholera is, it seems to me, at once apparent.

The first case referred to me for investigation was that of a laborer, Charles McAvoy, age thirty-two, who died on September 7, after an illness of about thirty-six hours' duration. He had suffered from severe watery diarrhœa and vomiting, accompanied by persistent cramps in the abdomen and limbs—collapse and death followed. This case was reported to the Health Department by the physicians in attendance as probably one of Asiatic cholera.

At the autopsy, such lesions as may be found in cases of death from both sporadic and epidemic cholera were present. In the absence of any evidence of exposure to infection from epidemic cholera, and inasmuch as the microscopical examination of the intestinal contents was negative, and the anatomical lesions found in both sporadic and epidemic cholera may be so nearly identical as to make a differentiation on this ground impossible, the conclusion was reached, provisionally at least, that this was a case of sporadic cholera, and the cause of death was so returned to the Health Department.

A biological examination, however, was immediately begun, and on the 10th of September the investigation had proceeded to such extent that it was considered certain that it was a case of epidemic cholera. Realizing very fully, however, how many and what important interests were at stake, an official report was not presented to the Health Department until several days later, after the diagnosis had been confirmed by Dr. T. Mitchell Prudden, Consulting Physician to the Health

Department in the Division of Pathology, Bacteriology and Disinfection. A report was then forwarded to the Department, correcting the original diagnosis, and reporting this as a case of epidemic or Asiatic cholera. During the month following this, nine other cases occurred in New York City, and one in New Brunswick, N. J., in which a diagnosis of Asiatic cholera was made, either on the ground of the biological examination, or, in two or three cases where no biological examinations were made, on the clinical history and the association of the patients with cases of Asiatic cholera. Twenty-four suspicious cases in all were examined biologically, in a number of instances repeated examinations being made.

Of the eleven cases of true epidemic cholera (including the New Brunswick case) nine died; among the others, which biological examination showed to be sporadic cholera, no deaths occurred. The clinical history in all the cases of true cholera was nearly the same, namely: vomiting, watery diarrhœa attended with severe cramps in the abdomen and legs, collapse, and in most cases death; the whole duration of the illness varying from six or eight hours to thirty-six hours, and in one instance to five days.

The anatomical lesions and post-mortem appearances in all of the cases were the same, and are so striking and so unusual in autopsies in this latitude, as to constitute in themselves strong but insufficient ground for a diagnosis.

The cultures from several of the latter cases, before an official report was forwarded to the Health Department, were examined at my request by Dr. T. Mitchell Prudden and Dr. Henry P. Loomis, and the diagnosis was confirmed by them, and their names were appended to the reports. After several cases had occurred, that there might be ample confirmation of the original diagnosis, cultures were sent to Dr. Harold Ernst, Professor of Bacteriology in the Harvard Medical School; to Dr. George M. Sternberg, Deputy Surgeon General of the United States Army (who, during the epidemic, at the suggestion of the Advisory Committee of the Chamber of Commerce, and at the request of Dr. Jenkins, was detailed as Consulting Bacteriologist to the New York Quarantine Station); Dr. J. M. Byron, Director of the Bacteriological Department of the Loomis Laboratory (who, during the epidemic, was placed by Dr. Jenkins in charge of the hospital on Swinburne Island); Dr. William M. Welch, Professor of Pathology in the Johns Hopkins University, Baltimore; Dr. J. J. Kinyoun, United States Marine Hospital Service, Washington (Dr. Kinyoun was appointed by Dr. Jenkins to take charge of disinfection of some of the cholera-infected vessels); and to Dr. Petri, Chief of the Bacteriological Department of the Imperial Board of Health of Germany. The identity of the organisms found in these cases with that of the cholera spirillum of Koch, was confirmed by all of these observers, and furthermore, Drs. Byron and Sternberg confirmed the identity of these organisms with those found in the cases that occurred on the cholera-infected vessels and on Swinburne Island. Unusual precautions were taken in this matter, that there might be no possibility of doubt as to the nature of the disease with which we had to deal.

THE BACTERIOLOGICAL EXAMINATIONS.

(Report of Dr. E. K. Dunham.)

The materials used for biological examinations in most of the cases, which proved to be epidemic cholera, were obtained from the intestinal contents after death, as in these cases, with one exception, death occurred before, or almost immediately after, they were first seen by the Health Department Inspectors.

Some of the intestinal contents, and in one case some of the stomach, were collected in vessels for transmission to the laboratory, or the ileum was tied at two points a short distance apart and then cut beyond the ligature, so that there might be the least possible alteration of the contents before its actual examination. In two cases fluid dejecta were obtained from suspected cases during life and sent to the laboratory in stoppered bottles. In still other cases the only available material was clothing, soiled by dejecta.

The method of examination necessarily differed according to the nature of the material received for examination. Where this material was fluid, it was examined directly under the microscope, without previous staining, and again after drying and dyeing with aniline colors.

These direct microscopical examinations of the intestinal contents proved very unsatisfactory. In only one case did cover-glass preparations of the dejecta show large numbers of comma-bacilli, agreeing in size and form with cholera bacillus. This case was where dejecta had been collected from a patient some time before death and examined within a very few hours. Plate cultures from the same material showed that the cholera bacillus made up 98 per cent. of those bacteria present which were capable of developing in ordinary nutrient gelatin at the temperature of the room.

In all the other cases microscopical examination revealed an abundance of columnar epithelium from the intestinal mucous membrane ; numerous straight thick bacilli ; a considerable amount of granular detritus ; but at most, only a few curved bacilli, which could not warrant even a presumption for or against the probability of a diagnosis of epidemic cholera. Plate cultures from this same material revealed the presence of the cholera bacillus, in proportions varying from about 20 per cent. to as high as 90 per cent. of the total bacteria developing upon the plates. This observation shows the importance of not relying upon a simple microscopical examination of dejecta or intestinal contents. An anology is presented by the untypical forms found in old bouillon and gelatin cultures of the cholera bacillus.

The cultures made for the purpose of identifying the cholera bacillus were invariably prepared by inoculation from typical colonies upon plate cultures. These plate cultures were made, where possible, directly from the fresh objects, or from material taken from the intestine or stomach at the autopsy. Where this was impossible, the material sent for examination (soiled clothing, etc.), was introduced into bouillon in test-tubes, and the latter placed in an incubator at 36 degrees C. (96.8 degrees F.) for six, eight, or twelve hours, until the bouillon was cloudy. From these impure bouillon cultures the initial plate cultures were then made, and the colonies developed on these plates used to inoculate other media for the purpose of identification.

In order not to miss the cholera bacillus, should it be present in small proportion, even where dejecta or intestinal contents were received, this preliminary bouillon cultivation was made in the hope that in this way material for plate cultures more favorable than the original material might be obtained. This safeguard against possible failure to detect the cholera bacillus in the original material, proved unnecessary in all the cases examined. The first set of plates from the original dejecta always yielded positive results, there being no difficulty in detecting the colonies of cholera bacilli. A previous cultivation in bouillon at the body temperature appeared, however to increase somewhat the relative abundance of the cholera colonies upon the plates. In the cases where the material to be examined was very small in amount and dried upon clothing, a preliminary cultivation in bouillon proved very satisfactory.

The bacteria associated with the cholera bacillus were chiefly bacterium coli commune or

proteus vulgaris, so that there was no difficulty in distinguishing those presumbly cholera from those which were certainly not cholera. But the appearance of the cholera colony varied so much on plates which developed at different temperatures, and with the size of the diaphragm used when they were examined under the microscope, that it seems excusable to dwell a little upon these variations, since the recognition of the cholera colony is the first step in the bacteriological diagnosis of a case.

The classical descriptions of the cholera colony refer to colonies which have developed at a temperature of from 60 to 65 degrees F. Under these conditions the colony appears circular, coarsely granular, with a peculiar high refraction, giving an appearance as though the colony were made up of broken bits of glass or beads of various sizes grouped together. It is colorless, or sometimes has a very faint pinkish tinge when examined with some lenses, but not, as far as I have observed, when examined with apochromatic objectives. Around the colony, after it has reached a considerable size (thirty-six to forty-eight hours), there is a narrow zone, in which the gelatin is softened and its surface depressed. This causes a refraction of light, so that the colony appears surrounded by a shadow when a moderately small diaphragm is used. The Abbé condenser with iris diaphragm was used when the plates were examined, and the size of the diaphragm varied to bring out the structure of the colonies. The smallest aperture was about one millimetre.

This description of the colony applies only to colonies more than twenty-four hours old. Very young colonies appear as minute, fine granular, colorless spots, nearly circular, but with slightly irregular edge.

Colonies which have developed at a higher temperature, approaching the point at which the gelatin begins to soften (from 70 to 73 degrees F.) show considerable modifications attributable to the more rapid liquefaction of the gelatin. There is a central, more compact mass, resembling the colony grown at a lower temperature; but its edge is ragged, and in the liquid surrounding it there are small, irregular portions of the growth which appear to have been detached from the central mass, and to float about freely in the liquid. The edge of the liquefaction, when a very small diaphragm is used, shows a narrow border of growth, with very fine, short radiations resembling the milled edge of a coin, but never extending appreciably into the solid gelatin.

As soon as the colonies upon the plate cultures had grown enough to develop their characteristic appearances, material from them was used to inoculate tubes containing about two cubic centimetres of a sterile solution of 1 per cent. peptone and ½ per cent. table salt in distilled water. These peptone cultures were then placed in the incubator at about 36 degrees C. (96.8 degrees F.) for six hours. They were then examined in hanging-drop preparations to determine the form, arrangement, and motility of the individual bacteria. In all of the cases these hanging drops showed curved bacilli, either isolated or in S-shaped pairs, and possessed of a very active motility. The growth was sufficiently abundant to render the liquid distinctly cloudy, and to occasion a whirling appearance in the cloudiness when the tube was shaken. These tubes were then used to obtain the "indol reaction" by pouring a few drops of concentrated "strictly pure" sulphuric acid down the inner surface of the tube, so that a layer of the strong acid was formed below the cultures. Within a few moments the peptone solution acquired a distinct rose line, sometimes tending toward lilac. In such young cultures the color was often faint, but in all cases it was unmistakable. The peptone used was Witte's "peptonum siccum."

These observations required from thirty-six to forty-eight hours from the time the material

was received, and in all the data furnished by them agreed with known characteristics of the cholera bacillus, a positive report was considered as justified. These data were: 1. The size, form and arrangement of the individual bacilli. 2. Their motility. 3. The appearance of colonies upon plate cultures. 4. The comparatively slow liquefaction of 10 per cent. slightly alkaline nutrient gelatin. 5. The rapid development in peptone solution at the body temperature. 6. An early and distinct development ot a positive response to the "indol test."

Fortunately, in all the cases examined, the variations in the above characteristics fell within the limits of variation previously well recognized in studies of fresh, pure cultures of the cholera bacillus grown at various temperatures. There was, therefore, no ground for hesitation in arriving at a diagnosis.

As confirmatory tests, cultures in gelatin tubes, on agar-agar, and on potato were also made.

The gelatin tube cultures show variations in development perfectly analogous to those observed in the colonies upon plate cultures and due also to differences of temperature. These variations are of degree rather than of kind and are illustrated in the accompanying photographs.

Not only do the appearances of cultures differ where the development has taken place under different conditions, but the appearances of the individual bacilli vary somewhat according to the medium and the temperature. Under some circumstances appear short and but slightly curved. In other cases they are longer, appear more slender, and show a much more marked curvature. These observations are illustrated by the photographs. Fig. 10 was taken of a contact cover-glass preparation made from a plate culture after development for forty hours at a rather high temperature (between 65 and 70 degrees F.). Fig. 11 is a photograph of a cover-glass preparation made from a culture in peptone solution. Fig. 12 is a photograph from a cover-glass preparation made by contact from a plate culture grown at a low temperature. It is very exceptional to find spirilla in colonies developed upon gelatin plates. In bouillon cultures of cholera from the first case (McAvoy), spirilla of twenty-five turns were observed.

The following is a brief summary of the results obtained in the individual cases which yielded positive results:

Sample 1 (Case I., McAvoy)—Intestinal contents obtained from the ileum more than twenty-four hours after death. Cholera bacilli found in the proportion of about 30 per cent. of all the bacteria growing upon plate cultures.

Sample 2 (Case IV.)—Dejecta. Cholera bacilli found in great abundance. Percentage not determined.

Sample 3 (Case III.)—Dejecta. Examination within a few hours of collection, 98 per cent. cholera bacilli.

Sample 4 (Case VII.)—Intestinal contents received in a portion of colon tied at both ends, more than twenty-four hours after death. Cholera bacilli abundant. No record of percentage.

Sample 5 (Case IX.)—Two samples: 1. Rag soiled with dejecta. 2. Cotton soaked in a mixture of dejecta and vomitus which had been very largely diluted with water by the family of the patient. Cholera bacilli found in abundance in both samples. Percentage estimation impossible. Large quantities of proteus vulgaris contaminated the plate cultures.

Sample 6 (Case VIII.)—Intestinal contents. Cholera bacilli in great abundance. No record of percentage.

Sample 7 (Case X.)—Dejecta on clothing and on wad of absorbent cotton. Cholera bacilli in great abundance. Percentage determination impossible.

Sample 8 (Case XI.)—Dejecta examined four hours after their collection ; 32 per cent. cholera. Intestinal contents examined within twelve hours after death ; 88 per cent. cholera.

Sample 9—Intestinal contents examined about twenty-four hours after death ; 85 per cent. cholera. The gastric contents contained 70 per cent. of cholera.

In every case the examination was made in duplicate, in most of the cases in triplicate or quadruplicate.

THE ANATOMICAL LESIONS AND POST-MORTEM APPEARANCES.

The post-mortem appearances and the anatomical lesions in the cases of Asiatic cholera, eight in number, in which autopsies were performed, were very striking and were practically identical. The face had a peculiar drawn expression, the cheeks and eyes were much sunken and the cheek bones were very prominent. The extremities of the nose, fingers and toes were shriveled and often cyanosed. The extremities (arms and legs) were semi-flexed, with the toes drawn under and the fingers clenched, rigor mortis was very much marked, and in some cases the temperature post-mortem remained high for some hours. On opening the abdomen the coils of intestines presented a peculiar rosy tint, which was especially marked in the coils of the ileum. The small intestines especially were as a rule markedly distended with fluid contents. All of the parenchymatous organs showed cloudy swelling and appeared congested. The brain and its membranes were also congested. The blood everywhere was fluid or showed only a few soft dark clots.

The mucous membrane of the stomach and intestines presented few changes to the naked eye, excepting marked prominence and swelling of the patches of Peyer and the solitary follicles in the lower part of the ileum. The intestinal contents were usually large in amount, had a gruel-like consistency and a slightly pinkish hue. If placed in a vessel and allowed to stand for some hours, a white sediment formed, leaving an almost clear supernatant fluid having a pink tinge. The sediment was found on microscopical examination to be made up largely of desquamated epithelial cells from the mucous membrane, mucus, micro-organisms and granular detritus.

The bladder was usually empty. In a few cases there was a peculiar marked dryness of all the organs.

The post-mortem appearances and the anatomical lesions, together with the absence of any sufficient anatomical cause for death, produce a picture that is unlike that seen in any other disease, excepting in those comparatively rare cases of sporadic cholera which present the same clinical histories.

A table is appended giving the important data regarding the specimens from suspicious cases which were examined bacteriologically.

Copies of the letters received from the different bacteriologists who have examined the cultures, are also appended :

UNIVERSITY OF THE CITY OF NEW YORK—MEDICAL DEPARTMENT,
No. 410 EAST TWENTY-SIXTH STREET,
NEW YORK, December 1, 1892.

Dr. HERMANN M. BIGGS :

DEAR SIR—I have examined cultures of the cholera spirillum received from Dr. E. K. Dunham, and find that they are identical with those which I have received from Europe, and also with

those obtained by me from the cases of Asiatic cholera at Swinburne Island, and from the cholera infected vessels.

(Signed) J. M. BYRON, M. D.,
Director of the Bacteriological Department of the Loomis Laboratory.

OFFICE OF THE ATTENDING SURGEON, U. S. A.,
ROOMS NOS. 31, 32 AND 33, ARMY BUILDING, NO. 39 WHITEHALL STREET,
NEW YORK CITY, December 5, 1892.

Dr. HERMANN M. BIGGS, Health Department, New York City:

MY DEAR DOCTOR—In reply to your letter of December 5, I would say that I obtained from Dr. Dunham a culture of the cholera spirillum from one of the city cases. This I have carefully compared with a culture obtained by myself from the rice-water dejecta of a case at Swinburne Island, from one of the cholera-infected ships. The cultures from the two sources were identical, and both correspond with cultures which I have studied from Dr. Koch's laboratory.

Very truly yours,

(Signed) GEORGE M. STERNBERG,
Deputy Surgeon General, U. S. A., Director, Hoagland Laboratory.

NO. 506 CATHEDRAL STREET,
BALTIMORE, December 7, 1892.

DEAR DR. BIGGS— * * * I received some time ago two cholera cultures from Dr. Sternberg, one of which he said was obtained by Dr. Dunham from one of the New York cases. This culture seems to be entirely typical, and I should not hesitate to pronounce it one of the spirillum of Asiatic cholera. * * *

Very sincerely yours,

(Signed) WILLIAM H. WELCH.

TREASURY DEPARTMENT,
OFFICE OF THE SUPERVISING SURGEON-GENERAL, MARINE HOSPITAL SERVICE,
WASHINGTON, D. C., December 18, 1892.

DEAR DOCTOR BIGGS—I have just returned from Mexico, where I have been for the past three weeks. In regard to your questions concerning the micro-organisms from the cases occurring in New York City and at Quarantine, they are, as far as I can determine, one and the same organism; further, they are of the same character, and in every respect resemble those examined by us in 1887. * * *

Sincerely yours,

(Signed) JOS. J. KINYOUN.

BERLIN, October 27, 1892.

MY DEAR DOCTOR DUNHAM—The little chest with the cholera culture and your very kind letter is in my hands since about a fortnight.

I could not spare but this day the time to express you my best thanks for it. Indeed, I am glad to possess a specimen of the New York cholera from this year. I made plates and new cultures in comparison with our new German cultures (Hamburg, Berlin, etc.). As far as I can judge hitherto, there is no difference between the New York and the other fresh cultures from Europe. If you wish to have some European cultures, I am willing to send you all you need.

Director Koehler ordered me to embody your culture in our collection, and likewise I gave a specimen to Koch.

I am much interested to know the origin of the case your preparation is derived from; whether the patient, for example, was a sailor or in some connection with the water, or not. Perhaps you can obtain information.

Yours truly,

(Signed) PETRI.

Bacteriological Examinations in Suspected Cholera Cases, September and October, 1892.

No.	Sample Received.	Character of Sample.	Direct Microscopical Examination.	Culture Results.	Relative Proportion of Cholera Bacilli to Total Number of Bacteria.	Results Reported.	Remarks.
1	Sept. 7	Intestinal contents	Inconclusive.	Cholera.....	About 20%..	Sept. 13	Died September 7.
2	" 9	"	"	Not cholera.....	.....	" 11	Autopsy by Dr. H. P. Loomis, who reported death as due to meningitis.
3	" 11	Cloth stained with dejecta.	Negative.....	"	.....	" 14	
4	" 11	Intestinal contents	"	Probably cholera.	.....	" 14	Died September 10. Body had been embalmed before autopsy. Report based on next case (No. 5).
5	" 12	Dejecta.....	Cholera spirillum present.	Cholera.....	About 100%.	" 14	Died September 11. Wife of William Wiegmann (No. 4).
6	" 12	Intestinal contents	Inconclusive.	"	Abundant..	" 14	Died September 11.
7	" 14	"	"	"	Not noted..	" 16	Died September 13.
8	" 15	Vomit.....	"	Not cholera.....	.....	" 17	
9	" 15	Cloth stained with dejecta.	Negative.....	"	.....	" 17	
10	" 19	Dejecta.....	.....	Cholera.....	.....	" —	Died September 23.
11	" 19	Cotton and clothing soaked in dejecta and dirty water.	Not made....	"	Not noted..	" —	Died September 18. Examination made at request of authorities of New Brunswick, N. J.
12	" 19	Intestinal contents	Inconclusive..	"	.....	" —	Died September 18. Stoker on steamship "Nevada."
13	" 21	Dejecta.....	Not made....	Not cholera.....	.....	" 23	
14	" 21	Vomit.....	"	"	.....	" 23	

No.	Sample Received.	Character of Sample.	Direct Microscopical Examination.	Culture Results.	Relative Proportion of Cholera Bacilli to Total Number of Bacteria.	Results Reported.	Remarks.
15	Sept. 21	Dejecta.....	Not made....	Not cholera.....	.....	Sept. 24	
16	" 21	"	"	"	.....	" 24	
17	" 21	Intestinal contents	"	"	.....	" 23	
18	" 22	Dejecta.....	"	"	.....	" 24	Second sample, case No. 16.
19	" 22	"	"	"	.....	" 24	Second sample, case No. 15.
20	" 23	"	"	"	.....	" 24	Second sample, case No. 13.
21	" 26	"	"	"	.....	" 30	
22	" 26	"	"	"	.....	" 30	
23	" 28	"	"	"	.....	" 30	Second sample, case No. 22.
24	" 28	"	"	"	.....	" 30	
25	" 28	"	Inconclusive.	Cholera.....	About 30%..	Oct. 1	Died September 29.
26	" 29	Intestinal contents	"	"	About 88%..	" 1	Died September 29. Second sample, case No. 25.
27	Oct. 4	Cloth soaked with dejecta.	Not made....	Not cholera.....	.....	" 8	
28	" 5	Stomach contents.	"	"	.....	" 8	Second sample, case No. 27.
29	" 5	Intestinal contents	"	"	.....	" 8	Third sample, case No. 27.
30	" 7	"	"	"	.....	" 9	
31	" 7	Stomach contents.	"	"	.....	" 9	

Circulars on Disinfection.

Health Department, New York, September 5, 1892.

The Board of Health has approved the following (prepared by one of its Consulting Pathologists, Dr. Hermann M. Biggs) in respect to disinfection and disinfectants, and directs that the disinfectants described and the methods of their use be employed in the hospitals for contagious diseases in charge of this Department, and recommends the same to the public in all cases of contagious disease.

DISINFECTION AND DISINFECTANTS.

The contagious diseases are caused by minute living germs. The object of disinfection is to destroy these. In order that as few articles as possible shall be exposed to infection by the disease germs, at the very beginning of the illness all unnecessary furniture (especially upholstered furniture and curtains), and other unnecessary articles, should be removed from the sick room.

The following are the best-known disinfectants:

1. *Heat.*—Continued high temperatures destroy all form of life. Boiling for at least one-half hour will destroy all disease germs.

2. *Carbolic Acid.*—Standard Solution No. 1 is composed of six ounces of carbolic acid, dissolved in one gallon of hot water. This makes approximately a five per cent. solution of carbolic acid. The commercial colored impure carbolic acid will not answer for this purpose. Great care must be taken that the pure acid does not come in contact with the skin. When practicable, the carbolic solution should be used as hot as possible.

3. *Corrosive Sublimate* (bichloride of mercury).—Standard Solution No. 2 is composed of sixty grains of pulverized corrosive sublimate and sixty grains of chloride of ammonia, dissolved in one gallon of water. This solution must be kept in glass, earthen or wooden vessels (not in metal vessels).

The above solutions are very poisonous when taken by mouth, but are harmless when used externally.

4. *Milk of Lime.*—Standard Solution No. 3 is made by mixing one quart of dry freshly slaked lime with five quarts of water. Lime is slaked by pouring a small quantity of water on a lump of quick-lime. The lime becomes hot, crumbles and as the slaking is completed a white dry powder results. The powder is used to make Solution No. 3.

Air-slaked lime has no value as a disinfectant.

The proprietary disinfectants, often widely advertised, and whose composition is kept secret, are relatively expensive and often unreliable and inefficient. It is important to remember that substances which destroy bad odors are not necessarily disinfectants.

By order of the Board.

CHARLES G. WILSON, President.

EMMONS CLARK, Secretary.

METHODS OF DISINFECTION.

1. *Hands and Person.*—Standard Solution No. 1 should be diluted with an equal amount of water. Hands soiled in caring for persons suffering from contagious diseases, or soiled portions of the patient's person, should be immediately and thoroughly washed in this solution and then washed with soap and water. The nails should be kept perfectly clean and the hands should always be carefully disinfected before eating.

2. *Soiled Clothing, Towels, Napkins, Bedding, etc.*, should be immediately immersed in Standard Solution No. 1 and soaked for twelve hours, being occasionally moved about in the fluid so as to bring the disinfectant in contact with all parts. They should then be wrung out and boiled in soapsuds for one hour. Articles, such as beds, etc., that cannot be washed should be burned.

3. *Food and Drink.*—Food thoroughly cooked and drinks that have been boiled are free from disease germs. In presence of an epidemic of cholera or typhoid fever, milk and the water used for drinking, cooking, washing dishes, etc., should be boiled just before using, and all persons should avoid eating fruit, fresh vegetables and ice. Ice may, however, be used when ordered for the sick by a physician.

4. *Discharges* of all kinds from patients suffering from contagious diseases should be received into earthen vessels containing Standard Solution No. 1 or 3. Special care should be observed to disinfect at once the vomited matter and the intestinal discharges from cholera patients, as these alone contain the dangerous germs. The volume of the disinfecting solution used should be at least four times as great as that of the discharge. After standing for at least one hour in the disin-

fecting solution these discharges may be thrown into the water-closet. Bedding or clothing soiled by the discharges must be at once placed in Solution No. 1, and the hands of the attendants disinfected, as described above.

5. *Closets, Sinks, etc.*—Each time the closet is used for infected material, at least one quart of Solution No. 1 should be poured into the emptied pan and allowed to remain there. All discharges should be disinfected before being thrown into the closet. Sinks should be flushed at least once daily with the same solution.

6. *Dishes, Spoons, etc.*, used by the patient should be kept for his exclusive use, should not be removed from the room, but should be washed there—first in Solution No. 1, and then boiled in strong soapsuds. These washing fluids should afterwards be thrown into the water-closet. The remains of meals should be thrown into a vessel containing milk of lime. The contents of the vessel, after standing half an hour or more, should be thrown in the water-closet.

7. *Soiled Woodwork, Floors, Plain Furniture, etc.*, should be thoroughly washed with Solution No. 2. Upholstered furniture, curtains or carpets which have been soiled by the discharges should be referred to the Health Department for disinfection or destruction.

It is important to remember that an abundance of fresh air, sunlight and absolute cleanliness, not only help protect the attendant from infection, but also aid in the recovery of the sick.

NOTE.—The cost of the carbolic solution is much greater than that of the other solutions, but generally is to be much preferred. When the cost is an important element, the bichloride solution may be substituted for all purposes for which the carbolic is recommended, excepting for the disinfection of discharges, eating utensils or articles made of metal, and of clothing, bedding, etc., which is very much soiled. Its poisonous character, except for external use, must be kept constantly in mind.

By order of the Board.

CHARLES G. WILSON, President.

EMMONS CLARK, Secretary.

CONTAGIOUS DISEASES.

Diphtheria, Scarlet Fever, Measles.

These diseases are very contagious. Diphtheria is usually transmitted from the sick to the well by the moist or dry discharges from the nose and throat of the sick person. Scarlet fever and measles are transmitted by the discharges from the nose and throat, and also by the scales thrown off from the surface of the skin. These discharges and scales contain the minute germs that cause these diseases. The importance, therefore, of their proper disinfection can be at once understood.

Directions to Prevent other Cases of Diphtheria, Scarlet Fever and Measles Occurring in a Family where one Case exists.

1. If possible, one attendant should take the entire care of the sick person, and no one else besides the physician should be allowed to enter the sick-room. The attendant should have no communication with the rest of the family. The members of the family should not receive or make visits during the illness.

2. The discharges from the nose and mouth must be received on handkerchiefs or cloths, which should be at once immersed in a carbolic solution (made by dissolving six ounces of pure carbolic acid in one gallon of hot water, which may be diluted with an equal quantity of water). All handkerchiefs, cloths, towels, napkins, bed-linen, personal clothing [illegible] clothes, etc., the

have come in contact in any way with the sick person, after use should be immediately immersed without removal from the room in the above solution. These should be soaked for two or three hours, and then boiled in water or soapsuds for one hour.

3. In diphtheria and scarlet fever, great care should be taken in making applications to the throat or nose, that the discharges from them in the act of coughing are not thrown into the face or on the clothing of the person making the applications, as in this way the disease is likely to be caught.

4. The hands of the attendant should always be thoroughly disinfected by washing in the carbolic solution, and then in soapsuds, after making applications to the throat or nose, and before eating.

5. Surfaces of any kind soiled by the discharges should be immediately flooded with the carbolic solution.

6. Plates, cups, glasses, knives, forks, spoons, etc., used by the sick person for eating and drinking must be kept for his especial use, and under no circumstances removed from the room or mixed with similar utensils used by others, but must be washed in the room in the carbolic solution and then in hot soapsuds. After use, the soapsuds should be thrown in the water-closet, and the vessel which contained it should be washed in the carbolic solution.

7. The room occupied by the sick person should be thoroughly aired several times daily, and swept frequently, after scattering wet newspapers, sawdust or tea-leaves on the floor, to prevent the dust from rising. After sweeping, the dust upon the woodwork and furniture should be removed with damp cloths. The sweepings should be burned, and the cloths soaked in the carbolic solution. In cold weather, the sick person should be protected from draughts of air by a sheet or blanket thrown over his head while the room is being aired.

8. When the contagious nature of the disease is recognized within a short time after the beginning of the illness, after the approval of the Health Department Inspector, it is advised that all articles of furniture not necessary for immediate use in the care of the sick person, especially upholstered furniture, carpets and curtains, should be removed from the sick-room.

9. In scarlet fever and measles, when the patient is beginning to recover and the skin is peeling off, the body should be washed once daily in warm soapsuds, and afterwards anointed with oil or vaseline. This should be continued until all roughness of the skin has disappeared.

10. When the patient has recovered from any one of these diseases, the entire body should be bathed and the hair washed with hot soapsuds, and the patient should be dressed in clean clothes (which have not been in the room during the sickness), and removed from the room. Then the Health Department should be immediately notified, and disinfectors will be sent to disinfect the room, bedding, clothing, etc., and under no conditions should it be again entered or occupied until it has been thoroughly disinfected. Nothing used in the room during the sickness should be removed until after this has been done.

11. The attendant and any one who has assisted in caring for the sick person should also take a bath, wash the hair and put on clean clothes, before mingling with the family or other people, after the recovery of the patient. The clothes worn in the sick-room should be lett there to be disinfected with the room and its contents by the Health Department.

By order of the Board of Health.

CHARLES G. WILSON, President.

EDMOND CLARK, Secretary.

Disinfectants and Methods of Disinfection, as Recommended by the Health Department of the City of New York, December, 1892.

Disinfection and Disinfectants.

Sunlight, pure air and cleanliness are always very important agents in maintaining health and in protecting the body against many forms of illness. When, however, it becomes necessary to guard against such special dangers as accumulated filth or contagious diseases, disinfection is essential. In order that disinfection shall afford complete protection, it must be thorough, and perfect cleanliness is better, even in the presence of contagious disease, than poor disinfection.

All forms of fermentation, decomposition and putrefaction, as well as the infectious and contagious diseases, are caused by minute living germs. The object of disinfection is to kill these germs. Decomposition and putrefaction should at all times be prevented by the immediate destruction, or removal from the neighborhood of the dwelling of all useless putrescible substances. In order that as few articles as possible shall be exposed to infection by the germs causing the contagious diseases, it is important that all articles not necessary for immediate use in the care of the sick person, especially upholstered furniture, carpets and curtains, should be removed from the sick room at the very beginning of the illness.

Agents for Cleansing and Disinfection.

Too much emphasis cannot be placed upon the importance of sunlight, fresh air and cleanliness, both as regards the person and the dwelling, in preserving health and protecting the body from all kinds of disease. Sunlight and fresh air should be freely admitted through open windows, and personal cleanliness should be attained by frequently washing the hands and body.

Cleanliness in dwellings, and in all places where men go, may under ordinary circumstances be well maintained by the use of the two following solutions:

1. Soapsuds Solution.—For simple cleansing, or for cleansing after the methods of disinfection by chemicals described below, one ounce of common soda should be added to twelve quarts of hot soap (soft soap) and water.

2. Strong Soda Solution.—This, which is a stronger and more effective cleansing solution, is made by dissolving one-half pound of common soda in three gallons of hot water. The solution thus obtained should be applied by scrubbing with a hard brush.

When it becomes necessary to arrest putrefaction or to prevent the spread of contagious diseases by killing the living germs which cause them, more powerful agents must be employed than those required for simple cleanliness, and these are called disinfectants. The following are some of the most reliable disinfectants:

3. Heat.—Complete destruction by fire is the best method of disposing of infected articles of small value, but continued high temperatures not as great as that of fire will destroy all forms of life; thus, boiling or steaming in closed vessels for one-half hour will destroy all disease germs.

4. Carbolic Acid Solution.—Dissolve six ounces of carbolic acid in one gallon of hot water. This makes approximately a five per cent. solution of carbolic acid, which, for many purposes, may be diluted with an equal quantity of water. The commercial colored impure carbolic acid should not be used to make this solution. Great care must be taken that the pure acid does not come in contact with the skin.

5. Bichloride Solution (bichloride of mercury or corrosive sublimate).—Dissolve sixty grains of pulverized corrosive sublimate and two tablespoonfuls of common salt in one gallon of hot water. This solution must be kept in glass, earthen or wooden vessels (not in metal vessels).

The carbolic and bichloride solutions are very poisonous when taken by the mouth, but are harmless when used externally.

6. Milk of Lime.—This mixture is made by adding one quart of dry freshly-slaked lime to four or five quarts of water. (Lime is slaked by pouring a small quantity of water on a lump of quicklime. The lime becomes hot, crumbles, and as the slaking is completed a white powder results. The powder is used to make milk of lime.) Air-slaked lime has no value as a disinfectant.

7. Dry Chloride of Lime.—This must be fresh and kept in closed vessels or packages. It should have the strong pungent odor of chlorine.

The proprietary disinfectants, which are so often widely advertised, and whose composition is kept secret, are relatively expensive and often unreliable and inefficient. It is important to remember that substances which destroy or disguise bad odors are not necessarily disinfectants.

NOTE.—The cost of the carbolic solution is much greater than that of the other solutions, but generally is to be much preferred. When the cost is an important element, the bichloride solution may be substituted for all purposes for which the carbolic solution is recommended, except for the disinfection of discharges, eating utensils and articles made of metal, and of clothing, bedding, etc., which is very much soiled. Its poisonous character, except for external use, must be kept constantly in mind.

Methods of Disinfection in Infectious and Contagious Diseases.

The diseases to be guarded against by disinfection are scarlet fever, measles, diphtheria, tuberculosis (consumption), small-pox, typhoid and typhus fever, yellow fever and cholera.

1. Hands and Person.—Dilute the carbolic solution with an equal amount of water, or use the bichloride solution without dilution. Hands soiled in caring for persons suffering from contagious diseases, or soiled portions of the patient's body, should be immediately and thoroughly washed with one of these solutions and then washed with soap and water. The nails should always be kept perfectly clean. Before eating, the hands should be first washed in one of the above solutions and then thoroughly scrubbed with soap and water by means of a brush.

2. Soiled clothing, towels, napkins, bedding, etc., should be immediately immersed in the carbolic solution, in the sick room, and soaked for twelve hours. They should then be wrung out and boiled in the soapsuds solution for one hour. Articles such as beds, woolen clothing, etc., which cannot be washed, should be referred to the Health Department for disinfection or destruction.

3. Food and Drink.—Food thoroughly cooked and drinks that have been boiled are free from disease germs. Food and drinks, after cooking or boiling, if not immediately used, should be placed when cool in clean dishes or vessels and covered. In presence of an epidemic of cholera or typhoid fever, milk, and water used for drinking, cooking, washing dishes, etc., should be boiled, before using, and when cholera is prevalent all persons should avoid eating uncooked fruit, fresh vegetables and ice.

4. Discharges of all kinds from the mouth, nose and bowels of patients suffering from contagious diseases should be received into glass or earthen vessels containing the carbolic solution or milk of lime, or they should be removed on pieces of cloth, which are immediately immersed in one of these solutions. Special care should be observed to disinfect at once the vomited matter

and the intestinal discharges from cholera patients, as these alone contain the dangerous germs. In typhoid fever the intestinal discharges, and in diphtheria, measles and scarlet fever, the discharges from the throat and nose, all carry infection and should be treated in the same manner. The volume of the solution used to disinfect discharges should be at least twice as great as that of the discharge. After standing for an hour or more the disinfecting solution with the discharges may be thrown into the water-closet. Cloths, towels, napkins, bedding or clothing soiled by the discharges must be at once placed in the carbolic solution and the hands of the attendants disinfected, as described above. In convalescence from measles and scarlet fever the scales from the skin (peeling) are also carriers of infection. To prevent the dissemination of disease by means of these scales, the skin should be carefully washed daily in warm soap and water. After use, the soapsuds should be thrown into the water-closet and the vessel rinsed out with a carbolic solution.

5. The Sputum from Consumptive Patients.—The importance of the proper disinfection of the sputum (expectoration) from consumptive patients is little understood. Consumption is a contagious disease, and is always the result of transmission from the sick to the healthy or from animals to man. The sputum contains the germs which cause the disease, and in a large proportion of cases is the source of infection. After being discharged, unless properly disposed of, it may become dry and pulverized and float in the air as dust. This dust contains the germs and is the common cause of the disease through inhalation. In all cases, therefore, the sputum should be disinfected when discharged. It should be received into covered cups containing the carbolic or milk of lime solution. Handkerchiefs soiled by it should be soaked in the carbolic solution and then boiled. Dust from the walls, mouldings, pictures, etc., in rooms that have been occupied by consumptive patients, contains the germs, and will produce tuberculosis in animals when used for their inoculation. Therefore, rooms should be thoroughly disinfected before they are again occupied. If the sputum of all consumptive patients were destroyed at once when discharged, a large proportion of the cases of the disease would be prevented.

6. Closets, Kitchen and Hallway Sinks, etc.—Each time the closet is used for infected discharges, one pint of the carbolic solution should be poured into the pan (after it is emptied) and allowed to remain there. All discharges should be disinfected before being thrown into the closet. Sinks should be flushed at least once daily.

7. Dishes, knives, forks, spoons, etc., used by a patient should be kept for his exclusive use, and not removed from the room. They should be washed first in the carbolic solution, then in boiling hot soapsuds, and finally rinsed in hot water. These washing fluids should afterwards be thrown into the water-closet. The remains of the patient's meals may be burned or thrown into a vessel containing the carbolic solution or milk of lime and allowed to stand for one hour before being thrown away.

8. Rooms and their Contents.—Rooms which have been occupied by persons suffering from contagious disease should not be again occupied until they have been thoroughly disinfected by the Health Department. For this purpose either careful fumigation with sulphur will be employed, or this combined with the following procedure: Carpets, curtains and upholstered furniture which have been soiled by discharges, or which have been exposed to infection in the room during the illness, will be removed for disinfection by steam. Woodwork, floors, and plain furniture will be thoroughly washed with the soapsuds and bichloride solutions.

9. Rags, cloths and articles of small value, which have been soiled by discharges or infected in other ways, should be burned.

10. In case of death, the body should be completely wrapped in several thicknesses of cloth wrung out of the carbolic or bichloride solution and placed in an hermetically sealed coffin.

If notified, the Health Department of New York City will disinfect rooms and their contents without cost to the tenant after the rooms have been vacated by persons convalescent from any contagious disease. Notification should be sent to the Chief Medical Inspector, No. 309 Mulberry street. Telephone call, No. 251 Spring.

It is important to remember that an abundance of fresh air, sunlight and absolute cleanliness not only helps protect the attendants from infection, but also aids in the recovery of the sick.

Methods of Cleanliness and Disinfection to Prevent the Occurrence of Illness.

1. Water-closet bowls and all receptacles for human excrement should be kept perfectly clean by frequent flushing with a large quantity of water, and as often as necessary disinfected with the carbolic or bichloride solutions. The woodwork around and beneath them should be frequently scrubbed with the hot soapsuds solution.

2. Sinks and the woodwork around and the floor beneath them should be frequently and thoroughly scrubbed with the hot soapsuds solution.

3. School Sinks.—School sinks should be thoroughly flushed with a large quantity of water at least twice daily, and should be carefully cleaned twice a week or oftener by scrubbing. Several quarts of the carbolic solution should be frequently thrown in the sink after it has been flushed.

4. Cesspools and Privy Vaults.—An abundance of milk of lime or chloride of lime should be thrown into these daily, and their contents should be frequently removed.

5. Cellars and rooms in cellars are to be frequently whitewashed and, if necessary, the floors sprinkled with dry chloride of lime. Areas and paved yards should be cleaned, scrubbed, and if necessary, washed with the bichloride solution. Street gutters and drains should be cleaned, and when necessary sprinkled with chloride of lime or washed with milk of lime.

6. Air-shafts.—Air-shafts should be first cleaned thoroughly, and then whitewashed. To prevent tenants throwing garbage down air-shafts, it is advisable to put wire netting outside of windows opening on shafts. Concrete or asphalt bottoms of shafts should be cleaned and washed with the bichloride solution, or sprinkled with chloride of lime.

7. Hydrant sinks, garbage receptacles, and garbage and oyster-shell shutes and receptacles should be cleaned daily, and sprinkled with dry chloride of lime.

8. Refrigerators and the surfaces around and beneath them, dumb-waiters, etc., may be cleaned by scrubbing them with the hot soapsuds solution.

9. Traps.—All traps should be flushed daily with an abundance of water. If at any time they become foul, they may be cleaned by pouring considerable quantities of the hot strong soda solution into them, followed by the carbolic solution.

10. Urinals and the floors around and underneath them should be cleaned twice daily with the hot soap-suds solution, and in addition to this, if offensive, they may be disinfected with the carbolic solution.

11. Stable Floors and Manure-vaults.—Stable floors should be kept clean and occasionally washed with the hot soapsuds, or the hot strong soda solution. Powdered fresh chloride of lime may be used in manure-vaults.

12. Vacant rooms should be frequently aired.

13. The woodwork in school-houses should be scrubbed weekly with hot soapsuds. This refers to floors, doors, door-handles, and all woodwork touched by the scholars' hands.

14. Spittoons in all public places should be emptied daily and washed with the hot soapsuds solution, after which a small quantity of the carbolic solution or milk of lime should be put in the vessel to receive the expectoration.

15. Elevated and Surface Cars, Ferry-boats and Public Conveyances.—The floors, door-handles, railings and all parts touched by the hands of passengers should be washed frequently with the hot soapsuds solution. Slat-mats from cars, etc., should be cleaned by scrubbing with a stiff brush in the hot soapsuds solution.

Use of Bromine Solution as a Deodorant.

Slaughter-houses, butchers' ice boxes and wagons, trenches, excavations, stable floors, manure-vaults, dead animals, offal, offal docks, etc., may be deodorized by a weak solution of bromine, which is a valuable agent for this purpose. The bromine solution, however, is only temporary in its action and must be used repeatedly. It should be applied by sprinkling. Although somewhat corrosive in its action on metals, it is otherwise harmless.

The solution of bromine must be prepared with great care, as the pure bromine from which it is made is dangerous. It is very caustic when brought in contact with the skin ; it is volatile and its fumes are extremely irritating if inhaled. In preparing the solution in large quantities, a pound bottle of bromine should be dropped into a barrel containing forty or fifty gallons of water, and then broken under water with an iron bar. The solution is completed by thoroughly stirring. To prepare a smaller quantity an ounce bottle of bromine may be dropped into a pail containing three or four gallons of water, and broken in the same way and with the same care.

The Sterilization of Milk for Feeding Infants.

Sterilization is the process employed to destroy the germs contained in milk. Germs produce fermentation (souring) and render the milk unfit to be used as an article of food for infants. Milk, as it reaches the city, even if great care has been taken in its collection and shipment, contains germs, and these will produce fermentation, although the milk is kept on ice. Unclean vessels hasten this process. No matter how good milk may be in the morning, when comparatively fresh, toward evening, unless it has been partly or completely sterilized, it may be dangerous to an infant, and may cause fatal illness, even though it still tastes sweet.

Complete sterilization destroys all the germs in milk, and so prevents permanently fermentative changes ; by partial sterilization many of the germs may be destroyed, so that the milk will remain wholesome for at least twenty-four hours in the warmest weather.

Milk is best sterilized for infants by steam. It may be sterilized at a high or low temperature ; that is, at the boiling temperature (212 degrees F.) which is high sterilization, or at a lower degree of heat obtained by modifying the steaming process.

It has been found that milk sterilized at a high temperature (212 degrees F.) is not desirable for prolonged use, as the high temperature causes certain changes in the milk, which make it less suitable as a food for infants. These changes are in part avoided if a temperature lower than boiling is used. It is recommended that the lowest temperature be used, for partial sterilization, which will keep the milk wholesome for twenty-four hours in the warmest weather (Koplik).

The utensils necessary are—

(a) A tin pail or pot, about ten inches deep by nine inches in diameter, provided with the ordinary tin cover, which has been perforated with eight holes, each an inch in diameter. The holes should be arranged in a circle, midway between the border of the cover and its centre. The centre is also perforated with an opening of the same size.

(b) A wire basket, with eight nursing bottles (as sold in the shops for this purpose).

(c) Rubber corks for the bottles, and a bristle brush for cleaning them.

Directions (Koplik)—Place the milk, pure or diluted (as the doctor may direct), in the nursing-bottles, and place the latter in the wire basket. Put only sufficient milk for one nursing in each bottle. Do not cork the bottles at first.

Having previously poured about two inches of water in the tin pail or pot, and brought it to the boiling point, lower the basket of nursing bottles slowly into the pot. Do not allow the bottles to touch the water, or they will burst. Put on the perforated cover, and let the steaming continue for ten minutes; then remove the cover and firmly cork each bottle. After replacing the cover, allow the steaming to continue fifteen minutes longer in the winter and twenty minutes longer in the summer. The steam must be allowed to escape freely, or the temperature will rise too high.

The process of sterilization is now completed. Place the basket of bottles in a cool dark place or in an ice chest. The bottles must not be opened until just before the milk is to be used, and then it may be warmed by plunging the bottle in warm water. If properly prepared the milk will taste but little like boiled milk. There will not be a thick ring around the inside of the bottle, and no butter will be seen floating on the surface.

The temperature attained under the conditions stated above will not exceed in extreme cases 188 degrees F.

Milk should be sterilized when it is as fresh as possible, and only sufficient milk for twenty-four hours should be sterilized at one time. If, after nursing, the infant leaves some milk in the bottle, this should be thrown away.

Care of the Bottles is Important.—After nursing, the bottles should be filled with a strong solution of washing soda, allowed to stand twenty-four hours, and then carefully cleaned with a bristle (bottle) brush. Minute particles of dry or stale milk allowed to remain in the bottle are dangerous to the infant. The rubber corks and nipples should be boiled after using in strong soda solution for fifteen minutes, and then rinsed and dried.

After sterilizing, milk should never be put into unsterilized bottles, as this will spoil it.

Conclusion.

The general principles of disinfection outlined in this circular may be applied for the disin-

fection of all articles not specifically treated of, and which are similar in character to those considered.

By order of the Board of Health.

CHARLES G. WILSON, President.

EMMONS CLARK, Secretary.

EXPERIMENTAL WORK ON DISINFECTION.

A number of series of experiments have been performed :

(A) To determine the germicidal value of the so-called "Electrolized Sea-water."

(B) To determine the germicidal value of Sulphurous Acid Gas.

(C) To determine the efficiency of the process of disinfection employed at the Disinfecting Plant at East Sixteenth street.

(A) Series of Experiments to Determine the Germicidal Value of the So-called "Electrolised Sea-water."

A report of the preliminary experiments detailed below was presented to the Board on November 15. These experiments were performed under my direction or at my suggestion by Mr. Alfred L. Beebe in the Carnegie Laboratory, Dr. William H. Park in the Laboratory of the College of Physicians and Surgeons, and Dr. George P. Biggs in the Laboratory of the New York Hospital, with also some data by Dr. Edward K. Dunham and Dr. John H. Huddleston.

The water used in these experiments was furnished by Mr. A. E. Wolf, and was said to have been prepared from water taken at the foot of Rector street, North river, by the passage through it of an electric current. Samples furnished at different times varied in their germicidal powers, and apparently in the strength of their chemical constituents.

I.

The following observations as to certain physical and chemical properties were made by Dr. J. H. Huddleston. Samples of the water were furnished partly in glass and partly in wood. Those on which these notes were made came from wood.

The water was found to have a strong but not unbearable odor of chlorine ; this odor was greatly increased by the addition of strong acid. The solution was observed to be not immediately corrosive to hands or to ordinary fabrics, but to test its prolonged action small pieces of various fabrics were placed in the water in an open jar for three hours and then examined. The fabrics tested were red flannel (woolen), black cotton serge, black cotton wool cloth, pink silk ribbon, brown silk ribbon, thin turkey red cotton, thin blue flannel cloth, thin blue cotton cloth (gingham) and thin brown linen. At the end of an hour the blue and the red cottons and woolens were somewhat faded ; at the end of three hours those colors and cloths were quite bleached, and all the goods except the linen were weakened so that they could be torn easily. It was also observed that copper wire placed over the mouth of an open vessel containing the solution showed in a few hours marked evidence of corrosive action.

Experiments similar to those just narrated on textile fabrics were accordingly made on tin, brass, steel and iron with the following results : After three hours, tin which lay partly in and

partly out of the liquid was quite corroded, just at the surface of the liquid, and a precipitate of tin chloride lay at the bottom of the vessel; brass showed that it had been attacked, and the steel and iron looked brighter, i. e., the slight coating of rust had been removed.

II.

The following experiments to determine the germicidal value of the solution were performed by Mr. Beebe:

In the first series the water used was furnished in glass and was marked as follows: "Taken foot of Rector Street, N. R. Density 2° B. Charged in 3 gallon lot with 10 amperes for 2 hours; E. M. F. 4 Volts, October 17, 1892." This water was protected from the light and kept closed when not in use during the course of experiments. Cultures containing anthrax spores and staphylococcus pyogeneus aureus were prepared, and in these were dipped small sterilized disks of linen, about 8 mm. in diameter, which were subsequently dried in a desiccator over sulphuric acid. The dried disks were then immersed for varying lengths of time in various dilutions of the liquid to be tested, as noted below, and also in distilled water as a control. They were then transferred to nutrient gelatin tubes, and the growth, if any, of the specific micro-organisms noted. In order to observe the inhibiting effect, if any, of the amount of liquid transferred by the disks to the nutrient gelatin, a second set of controls (marked "y" in table below) was prepared, by immersing a sterile disk in each of the various dilutions of the liquid tested, and transferring this, together with a "culture" disk prepared as previously described, to nutrient gelatin tube.

NOTES.—Time from receipt of sample tested until first opened and used, forty-seven hours.

Distilled water used in making dilutions of sample tested.

Conclusions.

1st. Under the conditions outlined above, the solution tested is a germicide for anthrax spores:

a. By one hour's exposure to a 10 per cent. solution.

b. By one hour's exposure to a 50 per cent. solution.

c. By ten minutes' exposure to a solution of full strength.

It is a germicide for staphylococcus pyogeneus aureus:

a. By one hour's exposure to a 10 per cent. solution.

b. By ten minutes' exposure to a 50 per cent. solution.

c. By one hour's exposure to a solution of full strength, and probably by ten minutes' exposure to the same (see table).

2d. In all cases, save in the exposure of anthrax for one minute to a 10 per cent. solution, the liquid exercised a marked inhibiting effect on the growth of the micro-organisms employed.

III.

A series of experiments was performed by Dr. William Hallock Park, in the laboratory of the College of Physicians and Surgeons, under the general direction of Dr. T. Mitchell Prudden. The following is a brief summary of these experiments:

The materials used were fluid typhoid feces, common hard feces and mixed bacteria. To each of these were added the spirilla of cholera Asiatica. The feces contained very numerous bacilli coli commune.

did not disinfect even in three times the volume after twenty-four hours' exposure. I have not at hand sufficient data to explain satisfactorily the failure to disinfect in this case.

Furthermore, careful experiments should be made to determine the purposes for which it is practically available as a disinfectant. We know that of the disinfectants which are in common use, certain ones are efficient under certain conditions, and not under others, and the same would no doubt prove to be true regarding this one.

(*B*) *Experiments to Determine the Germicidal Value of Sulphurous Acid Gas.*

The following is a preliminary report of experiments made to determine the germicidal value of sulphurous acid gas, performed under my direction at the Carnegie Laboratory by Mr. Alfred L. Beebe, with assistance of Dr. Edward K. Dunham:

It has seemed to me of the greatest importance that there should be once and for all a determination of the exact value of SO_2 as a germicide. There has been for so long a time such wide discrepancies between the results of experimental work upon this agent and the practical results often obtained in its use, and practically SO_2 is so valuable as a disinfectant, if efficient, and it answers many indications so much more fully than any other substance that it seemed to me very important that, if possible, exact data covering all the phases of the question should be obtained. Liquid SO_2 has been but little used, either experimentally as a germicide or practically as a disinfectant, but it has appeared evident that if SO_2 as derived from burning sulphur, under conditions in which not more than 1½ or 2 volumes per cent. of gas is obtained, is in any degree efficient for the disinfection of rooms and their contents, that far better results should be obtained if the gas as derived from liquid SO_2 was employed, so that instead of 1½ or 2, 10, 15 or 20 volume per cent. might be used as the conditions required. It seemed also very important to determine the exact influence of moisture on the germicidal power of SO_2 under varying conditions. Further, a new factor has been introduced in these experiments which has never been present in any similar series, except in some that were performed by myself some years ago in the disinfection of rags in bale. I refer to the introduction of the article to be disinfected into a receiver and the production of a vacuum, so as to insure absolutely efficient penetration and so as to make available the use of the gas in 100 volume per cent. under pressure, if necessary. There can be no doubt of the great advantages that would be gained in the practical disinfection of articles in bulk, if it were shown that SO_2 100 volumes per cent. did not injure textile fabrics or colors and could be relied upon as an efficient germicide. It was for the determination of this question that these experiments with SO_2 100 volume per cent. were designed.

The use of SO_2 in this way was first suggested some years ago, I believe, by Mr. W. J. Pollock.

Mr. Beebe's report follows:

These experiments may be grouped as follows:

(A) Those in which the micro-organisms employed for test were protected from direct exposure to the gas.

(B) Those in which the micro-organisms employed were subjected to direct exposure to the gas.

Both sets of experiments were made under varying conditions of moisture, volume per cent. of gas, pressure of gas and time of exposure, as noted below.

The micro-organisms employed for test were cultures of anthrax, containing many spores, and of streptococcus pyogenes aureus, prepared and dried upon linen disks, precisely as described in a previous report, on the value as a germicide of "Electrolized Sea-water." Two disks from each of these cultures and two sterile disks were used for each experiment. After exposure to the gas, the discs were separately transferred to tubes of nutrient gelatin. Unexposed disks of anthrax and staphylococcus aureus were respectively added to the tubes containing the sterile discs, and these tubes formed the controls. The inhibiting effect, if any, of the amount of SO_2 gas transferred to the nutrient gelatin by the discs in general could thus be noted. The tubes so inoculated were kept under daily observation, and the growth, if any, of the specific micro-organisms noted. It will be observed that, so far as the micro-organisms were concerned, each experiment was made in duplicate.

The source of the gas in all of the following experiments was liquid sulphurous acid, contained in a glass siphon, and said to be anhydrous and under a pressure of sixty pounds to the square inch.

The apparatus employed consisted essentially of a glass receiver, provided with a mercury pressure manometer and vacuum gauge, and connected on the one hand with the SO_2 siphon, and on the other with a Bunsen vacuum pump. All connections having been made and the disks placed in the receiver, the latter was exhausted by the pump to the degree desired and the gas introduced.

It should be noted that in all experiments when the gas was employed in 100 volume per cent., the figures given for residual pressure are somewhat less than the truth. This is due to the fact that, with the means at command, it was impossible to entirely remove the small amount of air contained between the mercury in the pressure manometer and the pinch-cock shutting this off from the receiver. The error is, however, very small.

In all of the following experiments, with one exception, which is especially noted, the germicidal effect of SO_2 gas on the anthrax cultures was practically nil. The results on this micro-organism are omitted from the detailed statement.

(A) Experiments in which the disks were protected from direct exposure:

For this purpose disks from anthrax and staphylococcus cultures and sterile discs were separately wrapped in small pieces of sterile linen, and the small bundles so prepared were then tightly wrapped together in a piece of heavy, double-faced canton flannel, about five inches square. One of these larger bundles, intended to simulate a bale of rags, was used for each experiment. The bundles were kept in a desiccator over sulphuric acid until used, and were, therefore, dry when taken for test.

Experiments I. to V.—The bundles were exposed under what may be termed "ordinary conditions of dryness," i. e., no attempt was made to dry the air in the receiver, or the SO_2 gas introduced, nor, on the other hand, was moisture introduced into the receiver.

SO_2

Experiment No.	Micro-organism.	Residual pressure after exhaustion.	Approximate value per cent.	Pressure.	Variation in pressure during experiment.
I.	Staphylococcus pyogenes aureus.....	684 mm.	10	Normal.....	4 mm.....
II.	"	15 "	100	"	5 " .....
III.	"	15 "	100	"	4 " .....
IV.	"	15 "	100	About 380 mm.....	Not observed.....
V.	"	15 "	100	760 mm.....	12 mm .....

Experiment VI.—In this, the bottom of the receiver was partly covered with water, so that thoroughly moistened.

Experiment No.	Micro-organism.	Residual pressure after exhaustion.	Approximate value per cent.	Pressure.	Variation in pressure during experiment.
VI.	Staphylococcus pyogenes aureus.....	15 mm.	100	760 mm.....	7 mm .....

Note.—The bundle used in this experiment had been kept in a desiccator for fifteen days, and was, therefore,

Gas.

Time of exposure to.	Nutrient gelatin tubes kept under observation.	Results.	Remarks.
2 hours.....	7 days.....	Full growth	
1 hour.....	10 "	Possible slight inhibiting effect.....	
2 hours.....	10 "	Full growth.....	
1 hour.....	10 "	"	Pressure manometer not properly adjusted.
2 hours.....	8 "	Possible slight inhibiting effect.....	

the bundle lay partly in water during exposure. The surface of the bundle had previously been

Time of exposure to.	Nutrient gelatin tubes kept under observation.	Results.	Remarks.
1 hour.....	5 days.....	Decided inhibiting effect.....	Interior of bundle dry to touch, on opening same after experiment.

absolutely dry when taken for experiment.

(B) Experiments in which the disks were exposed direct to the gas :

In these a small sterilized glass beaker was used to hold the disks, and this was placed in the receiver without cover.

Experiment VII.—An attempt was made in this experiment to obtain strictly anhydrous conditions. V tubes, containing pumice boiled in concentrated sulphuric acid, were placed between the receiver and the pump and SO_2 siphon respectively. The disks were dried in the receiver for eight days over sulphuric acid. The control "culture" disks were dried for the same time and in the same way in a separate desiccator. Owing, however, to slight leakage, not noted at the time, a small amount of SO_2 gas entered the receiver when the disks were first introduced, and these were, therefore, exposed to its action in the presence of the ordinary moisture in the air of the receiver during the time required for complete desiccation.

Experiment No.	Micro-organism.	Residual Pressure After Exhaustion.	Approximate Value Per Cent.	Pressure.	Variation in Pressure During Experiment.	Time of Exposure to.	Nutrient Gelatin Tubes Kept Under Observation.	Results.
VII.	Staphylococcus pyogenes aureus	15 mm.	100	760 mm.	8 mm.	2 hours	10 days	Strong inhibiting effect.

Experiment VIII.—This was performed under "ordinary conditions of dryness," as previously defined.

Experiment No.	Micro-organism.	Residual Pressure After Exhaustion.	Approximate Value Per Cent.	Pressure.	Variation in Pressure During Experiment.	Time of Exposure to.	Nutrient Gelatin Tubes Kept Under Observation.	Results.
VIII.	Staphylococcus pyogenes aureus	15 mm.	100	760 mm.	12 mm.	2 hours	9 days	Very strong inhibiting effect.

Note.—Experiment performed on a damp, rainy day.

Experiments IX. and X.—The bottom of the receiver was covered with water. In each experiment heavy condensation took place on the inner surface of the receiver.

Experiment No.	Micro-organism.	Residual Pressure After Exhaustion.	Approximate Value Per Cent.	Pressure.	Variation in Pressure During Experiment.	Time of Exposure to.	Nutrient Gelatin Tubes Kept Under Observation.	Results.
IX.	Staphylococcus pyogenes aureus	15 mm.	100	760 mm.	16 mm.	1 hour	8 days	No growth.

Control growth very markedly inhibited.

Experiment No.	Micro-organism.	Residual Pressure After Exhaustion.	Approximate Value Per Cent.	Pressure.	Variation in Pressure During Experiment.	Time of Exposure to.	Nutrient Gelatin Tubes Kept Under Observation.	Results.
X.	Staphylococcus pyogenes aureus	674 mm.	11.3	Normal.	16 mm.	1 hour	14 days	No growth.

Note.—In experiment IX. the anthrax cultures were markedly inhibited and retarded in growth.

Conclusions.—The experiments detailed above were made under definite conditions, and are, therefore, conclusive so far as they go. They have not covered sufficient ground, however, to allow of definite conclusions as to the limits of the germicidal power of sulphurous acid gas on the micro-organisms employed for test. This is especially true with regard to the determination of the minimum amount of moisture, volume per cent. of gas and time of action necessary for efficient action of SO_2 gas under direct exposure.

The following experimental data, showing the maximum severity of test, so far as the micro-organism is concerned, must be borne in mind in accepting the truth of the conclusion given below, and are, therefore, restated here:

Time of exposure, two hours. Cultures exposed direct.

Pressure of gas, 30 pounds to the square inch.

Volume per cent. of gas, 100. Receiver practically completely exhausted before admission of gas.

Bearing the above in mind, the following conclusions may apparently be safely drawn:

1. Anhydrous sulphurous acid gas is not a germicide for anthrax spores or staphylococcus pyogenes aureus. The inhibiting effect noted on the growth of staphylococcus pyogenes aureus after exposure is undoubtedly due to the presence of moisture in small amount.

2. Moist sulphurous acid gas is an efficient germicide for staphylococcus pyogenes aureus. It is apparently not a germicide for spore-bearing anthrax, although a longer exposure under pressure and in 100 volume per cent. might render it effective (see experiment IX.).

3. The inefficiency of sulphurous acid gas on cultures of staphylococcus pyogenes aureus, protected from direct contact with the gas, is apparently due to the lack of penetration of moisture into the interior of the bundle. There is no question as to the complete penetration of the sulphurous acid gas itself.

It is my purpose to continue these experiments upon sulphurous acid gas until all phases of the question have been studied and its exact value as a germicide under all conditions has been obtained. Some further experiments have been made with sulphurous acid gas as obtained by burning sulphur, but these have not yet been completed.

(C) Series of provisional experiments to determine the efficiency of the routine methods of disinfection employed at the disinfecting plant, foot East Sixteenth street:

(a) The steam pressure, as measured by the dynamometer attached to the boiler, varies from 40 to 90 pounds per square inch, but averages about from 60 to 75 pounds; within the oven, however, there is free expansion and no pressure. There are two maximum tested thermometers in use, guaranteed to be accurate. These have been found not to be entirely accurate, however.

The following table shows the registration, noted at different times, and also the range of temperature obtained in the disinfecting chamber. No exposure was for less than 15 minutes:

Thermometer A.	Thermometer B.
266 degrees F.	272 degrees F.
282 degrees F.	280 degrees F.
296 degrees F.	300 degrees F.
278 degrees F.	278 degrees F.
264 degrees F.	268 degrees F.
274 degrees F.	272 degrees F.
286 degrees F.	288 degrees F.

It is apparent from the above, 1st, that the thermometers are one or both somewhat inaccurate; 2d, that the temperature in the oven may probably be safely estimated as varying usually from 270 degrees to 290 degrees F.; 3d, that the temperatures obtained are safely above the limits required for efficient disinfection. (Much difficulty has been experienced in obtaining accurate maximum self-registering thermometers, or in having such thermometers tested. I have not as yet been able to obtain anything entirely satisfactory.)

(b) Various bacteria selected as test organisms were submitted to the disinfectant action of steam and dry heat as regularly employed in the oven. The bacteria selected were prepared for exposure as follows: Small circular discs of sterile linen were soaked in bouillon cultures of the anthrax bacillus and desiccated. Each of the discs was then wrapped loosely in a ball of absorbent cotton about two and one-half inches in diameter and tied up with a single layer of cheese cloth. Numbers of such balls were prepared, and also balls were made in the same way containing discs prepared from cultures of the staphylococcus pyogenes aureus. These were hung in the middle of the oven and then subjected to the action of heat, both the so-called "moist" and the dry heat for various times as noted in the following table. Inoculations were then made after unwrapping the disc by dropping into a tube of nutrient bouillon. Control cultures were also prepared from similar discs not exposed and from sterile discs put through this process of disinfection.

Experiments with Anthrax.

No.	Time of Exposure.		Growth in Nutrient Media.
	To "Moist" Steam.	To "Dry" Heat.	
1	30 minutes.....	.....	Present but inhibited.
2	30 "	.....	"
3	60 "	.....	"
4	60 "	.....	"
5	60 "	30 minutes.....	"
6	60 "	30 "	"
7	Not exposed to steam.....	30 "	"
8	"	60 "	"

No.	Time of Exposure.		Growth in Nutrient Media.
	To "Moist" Steam.	To "Dry" Heat.	
9	30 minutes.....	60 minutes.....	Present but inhibited.
10	60 "	60 "	"
11	30 "	.....	Inhibition progressive.
12	60 "	.....	"
13	90 "	.....	"
14	120 "	.....	No development.
15	180 "	.....	"

Experiments with Staphylococcus Pyogenes Aureus.

No.	Time of Exposure.		Growth in Nutrient Media.
	To "Moist" Steam.	To "Dry" Heat.	
1	30 minutes.....	.....	Absent.
2	30 "	.....	"
3	60 "	.....	"
4	60 "	.....	"
5	60 "	30 minutes.....	"
6	60 "	30 "	"
7	Not exposed to steam.....	30 "	"
8	"	60 "	"
9	30 minutes.....	60 "	"
10	60 "	60 "	"
11	30 "	.....	"
12	60 "	.....	"
13	90 "	.....	"
14	120 "	.....	"
15	180 "	.....	"

The prepared control disks gave luxuriant growths of the bacteria contained, and the cultures from the sterile disks put through disinfection remained sterile.

Conclusions.—Exposure in the routine way, to either "moist" steam or dry heat for thirty minutes or more, first, kills the staphylococcus pyogenes aureus uniformly, and, second, inhibits progressively the growth of anthrax; third, moist steam destroys anthrax spores after an exposure of two hours or more.

I feel convinced from the conditions under which the exposure to steam occurs, and from the temperatures obtained, and also from the practical results of the process on the vitality of the organisms exposed, that we are employing dry and not moist steam in the ordinary process of disinfection, but that the exposures occur at such temperatures as will certainly destroy all pathogenic organisms. These experiments will be continued.

SOME INVESTIGATIONS AS TO THE INFECTIOUS CHARACTER OF MILK FROM TUBERCULAR COWS.

On December 12, 1892, there was received from E. J. Lederle, Acting Chemist of this Department, a sample of milk, marked No. 1, and on December 13 six additional samples, marked No. 2 to No. 7, inclusive.

These samples were taken from each of seven 10-quart cans, containing the mixed milk from a herd of forty-one cows, on a farm at Scarsdale, N. Y.

This milk was seized by Mr. Lederle on December 12, 1892, as unfit for human consumption. The seizure was based upon notification sent to this Deparment by Dr. Austin Peters, Chief Inspector of Cattle for the State Board of Health, that he had examined the above-described cows, and had found a number to be apparently suffering from tuberculosis. Dr. Peters subsequently reported that on December 14, 1892, he killed eleven of the cows, and that on post-mortem examination he found them all to be tuberculous.

At my request, Mr. Alfred L. Beebe, Inspector in Bacteriology, inoculated some guinea pigs with the milk, to determine its infectious qualities so far as tuberculosis was concerned.

The notes of these experiments and the results follow :

On December 12, 1892, about ten cubic centimetres of the sample marked No. 1 were injected into the abdominal cavities of each of two guinea pigs, marked respectively A and A1, observing all necessary precautions against the introduction of extraneous germs.

On December 13, as above, about five cubic centimetres each from samples marked Nos. 2, 3 and 4 were injected into the abdominal cavity of a guinea pig marked B, and about five cubic centimetres each from samples marked Nos. 5, 6 and 7, into the abdominal cavity of a guinea pig marked C. The average weight of the above pigs was about 450 grams.

The results of these inoculations were as follows :

Guinea pig marked B—Found dead December 22 (9 days after operation). Post-mortem showed apparent cause of death to be subacute peritonitis of septic origin, probably due to accidental introduction of pyogenic germs by the operation.

Guinea pig marked C—Found dead January 24, 1893 (42 days after the operation). On post-mortem found inguinal glands on both sides much enlarged and cheesy in spots. Mesentine glands enlarged. Spleen and omentum extensively tubercular. Numerous military tubercles in liver. Right lung contained one or two possible military tubercles ; left lung apparently free from tubercular growth. Small localized abscess was found at the point of inoculation.

Guinea pig marked A1—Found moribund on February 5, 1893 (54 days after operation) and chloroformed. Post-mortem showed many scores of tubercles in omentum. Spleen greatly enlarged. Lungs and pleura apparently entirely free from tubercular deposits.

Guinea pig marked A—Chloroformed on February 7, 1893 (56 days after operation). Was lively when killed but quite thin, having lost 28 grams in weight. Post-mortem showed left inguinal glands enlarged ; right inguinal glands normal or very slightly enlarged. Omentum,

spleen and liver extensively tubercular. Retro-peritoneal glands enlarged. Testicles apparently tubercular. Lungs contained about six small apparent tubercles in each, more recent than those present in the abdominal cavity.

In all of the above-described cases, the lesions found plainly indicated that the acute general military tuberculosis which they showed did not take its origin from a pre-existent pulmonary tuberculosis. It follows that the disease must have been caused by the introduction into the system of tubercle bacilli present in the milk injected.

These experiments seem to me very significant, as showing how infectious may be the mixed milk from a herd of cattle, some members of which are tubercular.

The above report is respectfully submitted.

HERMANN M. BIGGS, M. D.,
Chief Inspector, Division of Pathology, Bacteriology and Disinfection.

HEALTH DEPARTMENT OF THE CITY OF NEW YORK,
SANITARY BUREAU,
NEW YORK, January 3, 1893.

CYRUS EDSON, M. D., *Sanitary Superintendent:*

SIR—I have the honor to submit the following report of work performed by the Inspectors and Assistant Chemists for the year ending Saturday, December 31, 1892:

Inspectors on duty, 18; Clerk, 1	19
Sanitary Police on duty	7

Summary.

Total number of inspections	258,953
" analyses	2,269
" citizens' complaints received	1,132
" citizens' complaints held over since last report	15
" complaints made and returned to Sanitary Superintendent	173
" original compaints by Inspectors	26
" citizens' complaints returned for orders	147
" citizens' complaints returned as negative	977
" citizens' complaints under observation	23
" days at court or department	2,642
" arrests	209
Total number held on bail	196
Total number of trials at Special or General Sessions	172
Total amount of fines	5 days and $4,903 00
Total number of pounds of milk, fruit and foods, meat and fish, condemned and seized	5,193,783

Milk Inspections.

Inspectors on duty	6
Number of inspections	100,070
" specimens examined	158,465

Number of citizens' complaints received	43
" citizens' complaints returned as negative	43
" days at court or department	830
" special day inspections	92
" early morning inspections	46
" nights of special work	97
" quarts of adulterated milk destroyed, 8,718 pounds	4,559
" days in country or at laboratory	312
" arrests	191
Number held on bail	186
Number of trials at Special or General Sessions	160
Amount of fines	$4,825 00

Work Performed by the Assistant Chemists.

Assistant Chemists on duty	3
Number of analyses	1,200
" experimental analyses	1,069
" lactometers tested	42
" days at court or department	345
" nights of special work	9

The analytical work performed by the Assistant Chemist during the past year may be classified under the following heads :

Substance Examined.	Analyzed for—
Asparagus (canned)	Poisonous metals.
Beer	Injurious ingredients.
Buttermilk	Tartaric acid.
Brandied peaches	Poisonous metals.
Cheese	"
Chloral (solution)	Chloral.
Clothing fabrics	Arsenic.
Candy	Terra alba and injurious colors.
Canned goods	Poisonous metals, etc.
Cold cream	Composition.
Coffee	Adulteration.
Cocoa	"
Chocolate	"
Coloring matter	Injurious ingredients.
Distilled liquors	Percentage of alcohol.
Flour	Adulterants.
Gum	Opium.
Liquorice	Composition.
Meat	Poisonous substances.
Medicines (prescriptions)	Composition.

Substance Examined.	Analyzed for—
Milk	Adulterations.
" condensed	"
" preserved	"
Macaroni	"
Opium	Morphine.
Poison	Composition.
Sugar	Adulterations.
Snuff	Injurious colors.
Salt	Composition.
Suspected cholera	Cholera bacillus.
Tea	Adulteration.
Urine	Composition.
Viscera (human)	Trichinæ.
Water	Sanitary purity.
"	Character.
"	Metallic contamination.
"	Number of bacteria.
Wines	Injurious ingredients.

Substance Analyzed.	Number.	Substance Analyzed.	Number.
Asparagus	1	Meat	2
Beer	1	Medicines (prescriptions)	6
Buttermilk	1	Milk	392
Brandied peaches	1	Milk (condensed)	140
Cheese	1	Milk (preserved)	69
Chloral	1	Macaroni	2
Clothing fabrics	4	Opium	1
Candy	279	Poison	1
Canned goods	9	Sugar	3
Cold cream	1	Snuff	11
Coffee	5	Salt	1
Cocoa	2	Suspected cholera	1
Chocolate	1	Tea	1
Coloring matter	3	Urine	2
Distilled liquors	1	Viscera (human)	2
Experimental analyses	1,069	Water (Croton)	222
Flour	1	Water from wells	22
Gum	1	Water from cellars	6
Liquorice	1	Wines	2

FRUIT AND FOOD INSPECTIONS.

Inspectors on duty and Clerk	3
Number inspections	68,890
Number of pounds of fruit and foods condemned	2,322,821
Number of pounds of fruit condemned	1,875,473
Number of pounds of vegetables	371,810
Number of pounds of canned goods	4,250
Number of pounds of confectionery	1,000
Number of pounds of groceries	70,200
Antipyrine	88
Total	2,322,821

Number of citizens' complaints received	156
Number of citizens' complaints returned for orders	4
Number of citizen's complaints returned as negative	150
Number of citizens' complaints under observation	3
Number of days at Court or Department	570
Number of nights of special work	7
Number of arrests	9
Number held on bail	1
Number of trials at Special or General Sessions	7
Amount of fines	$43

Condemned and Seized.	Pounds.	Condemned and Seized.	Pounds.
Assorted fruits	102,775	Cocoanuts	19,400
Apples	110,070	Cherries	3,450
Apricots	8,925	Egg plant	2,625
Asparagus	250	Figs	145
Cucumbers	2,840	Celery	3,150
Beans	8,250	Grapes	42,565
Bananas	561,560	Green corn	1,525
Cranberries	12,576	Green peas	5,100
Beets	7,855	Greens	2,700
Dates	120	Lemons	19,000
Canned goods	3,800	Mangoes	4,600
Cauliflower	13,600	Melons (water)	253,638
Cabbage	42,520	Melons (musk)	42,390
Chestnuts	1,860	Raspberries	400

Condemned and Seized.	Pounds.	Condemned and Seized.	Pounds.
Nuts	725	Plums	11,170
Huckleberries	1,950	Pears	82,300
Garlic	9,225	Quinces	7,900
Oranges	118,085	Sardines	450
Onions	52,900	Strawberries	8,830
Antipyrine	88	Spinach	400
Candies	1,000	Sprouts	1,850
Chicory	150	Peppers	2,700
Citrons	4,700	Tomatoes	54,375
Eggs	200	Squash	900
Peas	400	Vegetables	33,170
Peaches	75,985	Turnips	475
Pineapples	379,005	Crackers	70,000
Potatoes	124,850	Persimmons	1,350

Number of inspections of commission houses	30
Number of inspections of auction houses	1,159
Number of inspections of stores	22,306
Number of inspections of licensed venders	20,319
Number of inspections of vessels	725
Number of inspections of railroad depots	1,170
Number of inspections of stands	21,739
Number of inspections of markets	1,440
Number of inspections of ice-houses	2

MEAT AND FISH INSPECTIONS.

Inspectors on duty	5
Number of inspections	62,080
Number of pounds of meat and fish condemned	2,862,244
Number of citizens' complaints received	160
Number of original complaints by Inspectors	1
Number of citizens' complaints returned for orders	3
Number of citizens' complaints returned as negative	156
Number of citizens' complaints under observation	3

Condemned and Seized.	Pounds.	Carcass.	Condemned and Seized.	Pounds.	Carcass.
Beef	1,016,623	1,435½	Assorted meats	40,921	.....
Veal	363,924	5,996½	Poultry	157,436	.....
Sheep	126,082	1,405½	Game	1,661	.....
Hogs	376,630	2,514			
Fish	778,967	.....		2,862,244	11,351½

Number of days at Court or Department	323
Number of nights of special work	34
Number of arrests	9
Number held on bail	9
Number of trials at Special or General Sessions	5
Amount of fines	5 days and $35
Number of inspections made of fish stores	7,652
Number of inspections made of stands	8,774
Number of inspections made of licensed venders	8,881
Number of inspections made of commission houses	10,307
Number of inspections made of butcher shops	5,142
Number of inspections made of slaughter-houses	11,729
Number of inspections made of packing-houses	965
Number of inspections made of ice-houses	2,869
Number of inspections made of vessels	2,156
Number of inspections made of railroad depots	1,333
Number of inspections made of stock yards	615
Number of inspections made of markets	1,653
Number of inspections made of stables	2
Number of inspections made of restaurants	2

WORK PERFORMED IN THE INSPECTION OF OFFENSIVE TRADES.

Inspectors on duty	2
Number of inspections	27,913
Number of citizens' complaints received	773
Number of original complaints by Inspectors	25
Number of citizens' complaints returned for orders	140
Number of citizens' complaints returned as negative	628
Number of citizens' complaints under observation	17
Number of days at Court or Department	574
Number of nights of special work	98

The reports received from the Inspectors of Offensive Trades, classified as to cause of complaint, are as follows :

Asphalt pavements	4	Dynamos	11
" factories	1	Dye works	68
Asylums	1	Drug stores	4
Bakeries	53	Distilleries	2
Blacksmith shops	54	Drug mills	19
Bone yards	149	Excavations	248
Boiler factories	20	Electrical apparatus manufactories	2
Blacking factories	7	Elevator factories	3
Box factories	213	Electrical lamps	6
Breweries	9	Fat rendering establishments	1,110
Butcher shops	38	Foundries	127
Bird stores	1	Fur stores	5
Butter stores	12	Fur dressing establishments	1
Blind asylums	3	Factories	267
Candy manufactories	6	Ferries	11
Cigar manufactories	131	Fruit stands	2
Cabinet manufactories	74	Fires	16
Clothing manufactories	64	Fish markets	7
Cheese manufactories	25	Furniture factories	15
Calf's head cleaning establishments	9	Fertilizer factories	251
Clothes cleaning establishments	180	Gas engines	28
Carpet cleaning establishments	4	Gas houses	1,742
Chemical works	25	Gas leaks in mains	128
Carpenter shops	22	Gas leaks in pipes	24
Cattle yards	1,737	Gas leaks in houses	58
Coal yards	26	Gas holders	752
Cold storage warehouses	7	Gas trenches	244
Cellars	148	Grocery stores	46
Cigar box factories	3	Grain drying establishments	5
Corset factories	3	Gut cleaning establishments	138
Dumps (manure)	39	Gas stoves	4
Dumps (garbage)	104	Hair picking establishments	5
Dumps (earth)	34	Hide cellars	255

Hog yards	143	Provision houses	104
Hide-cleaning establishments	13	Piers	1,274
Hat stores	4	Piano playing	4
Hospitals	6	Planing mills	4
Hotels	25	Public baths	20
Ice manufactories	141	Ponds, water	2
Iron works	13	Restaurants	124
Junk shops	62	Rag shops	58
Kindling wood factories	9	Round houses	466
Laundries	34	Railroads	336
Lime kilns	107	Railroads (elevated)	3
Lubricating grease works	1	Railroad depots	3
Leather manufactories	3	Railroad cars	13
Liquor stores	10	Rubber goods factories	4
Locomotives	23	Slaughter-houses (cattle)	10,638
Laboratories	1	Slaughter-houses (chickens)	3
Lakes	1	Smoke-houses	734
Medicine manufactories	3	Saw mills	483
Malt houses	4	Soap manufactories	186
Machine shops	6	Soda water manufactories	3
Milk depots	9	Stores	185
Markets	8	Streets	39
Mattress factories	1	Storage warehouses	15
Molding mills	1	Schools	13
Oyster saloons	1	Spice and coffee mills	43
Offices	801	Smelting works	59
Offal docks	87	Sausage manufactories	26
Offal wagons	40	Sewers	225
Oil works	3	Silk mills	18
Pickle factories	3	Silver plating establishments	5
Piano factories	4	Steam engines (stationary)	72
Parks	4	Stables	98
Packing houses	174	Stone yards	42
Private dwellings	631	Steam-heating pipes	46
Printing houses	34	Subway Company's pipes	1

Sidewalks	9	Warehouses (malt and hops)	6
Skating rinks	2	Water (Croton)	110
Steam exhaust pipes	20	Water (wells)	17
Sewing machines	1	Water tanks	46
Steam fan wheel	2	Water hydrants	16
Tenement-houses	639	Wire works	147
Tanneries	24	Wool pulling establishments	7
Tobacco manufactories	14	Wheelwright shops	37
Tripe factories	40	Wood yards	
Vinegar factories	8	Water reservoir	1
Vendors' wagons	2	Water gate-house	1
Varnish factories	58	Yards	129

ASSISTANT CHEMISTS.

The more important work performed by the Assistant Chemists during the year is as follows:

1st. Examination of Water.—May be classified as follows:

(a) Determination of character; made on samples of water taken by Sanitary Inspectors from drains, flooded cellars, etc., to determine the character of the water, whether Croton, tide-water, etc.

(b) Determination of metallic impurities; made on samples from tanks used for storage of Croton water in tenement and apartment houses, etc.

(c) Determination of sanitary purity; including the regular complete weekly analyses and daily partial analyses of samples of Croton water, also the examination of samples of Croton water taken at various times from different parts of the city, and examination of water from public wells during period of threatened cholera invasion.

Number of Bacteria in Croton Water, 1892.

Analysis No.	Date.	Number of Bacteria per c. c.	Analysis No.	Date.	Number of Bacteria per c. c.
6860	Jan. 8	11,656	6947	Mar. 10	3,619
6875	" 16	11,222	6950	" 17	Plates liq.
6877	" 22	10,660	6953	" 24	11,266
6879	" 29	7,570	6961	" 31	4,590
6911	Feb. 4	11,172	6967	April 7	Plates liq.
6929	" 11	11,340	6970	" 14	2,607
6933	" 18	9,198	6974	" 21	1,242
6938	" 25	Plates liq.	7003	" 28	880
6941	Mar. 3	2,579	7009	May 5	1,232

Analysis No.	Date.	Number of Bacteria per C. C.	Analysis No.	Date.	Number of Bacteria per C. C.
7015	May 12	Plates liq.	7153	Oct. 14	342
7019	" 19	836	7159	" 20	223
7022	" 26	Plates liq.	7166	" 26	467
7026	June 2	"	7179	Nov. 3	275
7093	Sept. 2	560	7182	" 9	325
7098	" 7	545	7196	" 16	643
7103	" 8	475 Samples taken daily.	7238	" 23	6,998
7107	" 9	444	7248	" 30	2,310
7108	" 10	656	7257	Dec. 7	Plates liq.
7117	" 16	Plates liq.	7266	" 14	20,267
7124	" 22	498	7273	" 21	12,618
7137	" 29	417	7282	" 28	.....
7145	Oct. 6	328			

Note.—Plates not made during the summer.

Year.		Chlorine in Chloride.	Equivalent to Sodium Chloride.	Nitrogen in Nitrates.	Free Ammonia.	Albuminoid Ammonia.	Total Nitrogen.	Hardness before Boiling, Equivalent to Carbonate of Lime.	Organic and Volatile.	Mineral Matter.	Total Solids.
1888	Highest	0.256	0.422	0.0880	0.0070	0.0300	0.0990	6.30	3.00	6.50	8.80
	Lowest	0.115	0.189	0.0192	None.	0.0020	0.0291	2.29	1.10	3.30	4.90
	Average	0.204	0.338	0.0468	0.0007	0.0070	0.0360	3.65	1.92	4.91	6.84
1889	Highest	0.228	0.368	0.0494	0.0015	0.0095	0.0527	5.18	2.80	6.90	8.80
	Lowest	0.154	0.254	0.0202	Trace.	0.0025	0.0231	3.35	1.00	4.00	5.90
	Average	0.196	0.324	0.0356	0.0005	0.0049	0.0398	4.00	2.01	5.12	7.13
1890	Highest	0.206	0.339	0.0824	0.0030	0.0275	0.0914	5.45	3.50	8.00	10.10
	Lowest	0.100	0.165	0.0165	Trace.	0.0009	0.0223	3.20	0.70	4.10	5.30
	Average	0.183	0.300	0.0445	0.0006	0.0084	0.0513	4.20	1.89	6.03	7.93
1891	Highest	0.377	0.621	0.0408	0.0060	0.0180	0.0481	5.47	3.00	8.00	10.50
	Lowest	0.163	0.269	0.0082	None.	0.0040	0.0164	3.23	1.00	4.30	6.00
	Average	0.205	0.338	0.0265	0.0010	0.0112	0.0366	4.30	1.94	6.05	7.99
1892	Highest	0.815	0.520	0.0655	0.0035	0.0225	0.0827	5.84	5.80	8.40	12.40
	Lowest	0.189	0.311	0.0119	Trace.	0.0035	0.0090	3.99	1.50	5.50	7.40
	Average	0.238	0.364	0.0260	0.0008	0.0128	0.0372	4.90	2.16	6.40	8.56

Month.	Temperature Fahr.	Appearance.	Chlorine in Chlorides.	Equivalent to Sodium Chloride.	Nitrogen in Nitrites.	Nitrogen in Nitrates.	Free Ammonia.	Albuminoid Ammonia.	Total Nitrogen.	Hardness before boiling. Equivalent to carbonate of lime.	Organic and Volatile.	Mineral matter.	Total solids.
January..	36½°	Slightly turbid.	0.283	0.467	None.	0.0286	0.0034	0.0126	0.0418	3.36	1.90	7.03	8.93
February.	36°	Slightly turbid.	0.251	0.414	"	0.0240	0.0009	0.0116	0,0342	3.47	1.83	6.80	8.60
March....	37°	Slightly turbid.	0.261	0.430	"	0.0187	0.0003	0.0084	0.0258	4.14	1.78	6.54	8.32
April....	48°	Slightly turbid.	0.255	0.421	"	0.0136	0.0006	0.0083	0 0209	4.23	1.60	6.18	7.78
May.....	58°	Slightly turbid.	0.230	0.382	"	0.0074	0.0008	0.0090	0.0154	4.46	2.03	6.23	8.26
June.....	68°	Slightly turbid.	0.202	0.339	"	0.0189	0.0010	0.0110	0.0288	5.11	2.84	6.32	9.16
July.....	74°	Turbid.....	0.210	0.346	"	0.0213	0.0004	0.0138	0.0329	5.15	2.68	6.25	8.93
August...	75°	Slightly turbid.	0.225	0.371	0.000175	0.0426	0.0003	0.0179	0.0578	5.56	2.20	6.55	8.75
September	69°	Slightly turbid.	0.223	0.367	0.00012	0.0255	0.0008	0.0155	0.0390	5.69	2.36	6.48	8.84
October..	59°	Slightly turbid.	0.230	0.378	None.	0.0397	0.0005	0.0175	0.0545	5.48	2.10	6.23	8.33
November	49°	Slightly turbid.	0.232	0.381	"	0.0298	0.0008	0.0172	0.0446	5.04	2.22	6.24	8.46
December	39°	Slightly turbid.	0.264	0.435	0.00005	0.0404	0.0009	0.0118	0.0513	5.08	2.25	6.58	8.83
Average..	54°	Slightly turbid.	0.238	0.364	0,00003	0.0260	0.0008	0.0128	0.0372	4.90	2.16	6.40	8.56

The quality of the water supply is not as good as last year. The water has been more turbid, and the color has been much darker than during the past ten years. Consumers supplied from mains at or near "dead ends" have been unable to use the water unless the hydrants at or near these points were frequently blown off. The odor has been much stronger, and this was very noticeable when "dead ends" were blown off, the water that was discharged upon first opening the hydrant being dark brown in color and having a very offensive odor. These facts taken with the results of the weekly analyses (viz.: Increase in total nitrogen, chlorides, organic and mineral matter) show conclusively a continual increasing pollution of our water supply.

The conclusions which were reached from the sanitary inspection of the water-shed in 1891 were that immediate action should be taken to prevent further pollution, and to abate such sources of pollution as existed. In view of a possible epidemic of cholera, it is of the utmost importance that the sources of pollution be abated; that fresh sources of pollution be prevented by the city acquiring such lands as may be necessary, and that some system of filtration be adopted.

Water tends to purify itself by the action of plant life, bacteria, aeration, sedimentation, etc., but if the streams in which this self-purification takes place are receiving constant increments of pollution at points along their courses, the so-called self-purification no longer goes on. Also, when the bottoms of streams become coated with a deposit of organic matter from sedimentation, less and less of this class of self-purification takes place.

The distributing reservoir (viz.: Croton Lake) has acted as a settling reservoir for many years, so that it has become charged with organic matter, and now gives up more or less to the supply as the water rises and falls, and as the temperature changes.

Methods of Analysis.

Appearance.—Determined by noting the amount of turbidity, including the sediment, and classifying as very turbid, somewhat turbid, slightly turbid and clear.

Color.—Estimated by filling a tube two feet in length, one and one-half inches in diameter, and made of colorless glass, with the water, and observing the color by looking through the water either at the sky or at a white paper.

Odor.—Ascertained by heating in a closely-stoppered flask, provided with a thermometer, about 250 c. c. of the water to 100 degrees F., and noting the odor, which we classified as follows: None; faint; and musty, marshy or earthy; qualifying these latter as faint, decided and strong.

Chlorine.—Reagents required: Hydrochloric acid, nitrate of silver (crystalized), chromate of potassium, dry carbonate of sodium or chloride of sodium.

(a) Nitrate of silver n/20—Nitrate of silver, 8.5 grams; distilled water (free from organic matter), 1 litre.

(b) Chromate of potassium, 1 gram; distilled water, 100 c. c.

(c) Chloride of sodium, n/20. This solution is prepared—

1st. From carbonate of sodium—Heat in a platinum dish about 10 grams of carbonate of sodium to dull redness, stirring with a platinum rod; cool in desiccator; weight out 2.9066 grams, dissolve in slight excess of hydrochloric acid, evaporate to dryness on water bath with repeated additions of water, until all of the uncombined acid is driven off, and dilute to 1 litre with distilled water.

1 c. c. contains { 0.001598 grams of chlorine
0.002638 grams of chloride of sodium.

2d. From chloride of sodium—Heat in a platinum dish about 10 grams of pure chloride of sodium until crepitation ceases, constantly stirring with platinum rod. Transfer while hot to dry tube, cork tightly and cool. Weigh out 2.6376 grams and dilute to 1 litre with distilled water.

1 c. c. = { 0.001598 grams of chlorine.
0.002638 grams of chloride of sodium.

Standardize the n/20 nitrate of silver solution with the n/20 chloride of sodium solution, using two drops of the chromate of potassium solution as an indicator.

Note.—It has been found (Analyst, vol. xiv., page 123) that in order to obtain concordant results, the same bulk of liquid as employed in the standardization must be used when making the analysis; the same amount of the chromate of potassium solution must also be used in each case.

To determine the amount of chlorine in water, measure out a quantity dependent on the amount of chlorine presumably present, and proceed as in standardization of the nitrate of silver solution, observing the precautions given for this, as to bulk of solution, etc. In evaporating a water low in chlorine, it is well to add a small amount (say 0.1 gram) of sodium carbonate to prevent loss of chlorine, and this should always be done if the water have an acid reaction.

Sodium Chloride.—This is calculated from the amount of chlorine, determined as above.

Phosphates.—Determined qualitatively in residue left from the determination of mineral matter, by dissolving the residue in a small quantity of conc. nitric acid, diluting slightly and filtering if necessary, transferring to a test tube, adding a few drops of solution of molydate of ammonia, and heating in water bath.

Nitrogen in Nitrites (*Method of Leffmann and Beam*).—Reagents required : Sulphanilic acid, napthylamine, acetic acid (glacial), nitrite of silver, chloride of sodium, distilled water, free from nitrites and ammonia.

(a) Sulphanilic acid solution—Sulphanilic acid, 0.500 grams, dissolved in distilled water, 100 c. c. ; then add acetic acid (glacial), 50 c. c.

(b) Acetate of napthylamine—Napthylamine, 0.100 grams, dissolved in distilled water, 140 c. c. ; then add acetic acid (glacial), 60 c. c.

(c) Nitrite of sodium (strong solution)—Nitrite of silver, 0.275 grams, dissolved in distilled water, 250 c. c. ; then add chloride of sodium, 0.105 grams, or enough to transform all nitrite of silver to chloride of silver and nitrite of sodium. Keep in black glass bottle away from light. 1 c. c. contains nitrous acid equivalent to 0.0001 grams of nitrogen.

(d) Nitrite of sodium (standard solution)—Nitrite of sodium (strong solution), 1 c. c. ; distilled water, 500 c. c. 1 c. c. contains nitrous acid equivalent to 0.0000002 grams of nitrogen.

To determine the nitrogen in nitrites in a water, measure from burette into 100 c. c. Nessler tubes ½, 1, 2, 3, 4, and 5 c. c., respectively, of the standard nitrite solution. Fill to 100 c. c. mark with distilled water free from nitrities. Fill another tube to 100 c. c. mark with the same water (this for blank test), and another to 100 c. c. mark with water to be tested. Add to each of these tubes 2 c. c. of the sulphanilic acid and 2 c. c. of the acetate of napthylamine solution. Mix contents of tubes by means of glass stirrer ; allow to remain for twenty minutes, and then match colors. If tube containing blank test shows reaction for nitrites, fresh standard tubes must be made up and the analysis repeated.

Nitrogen in Nitrates (*Method of Gladstone and Tribe*)—Reagents required : Bichloride of mercury, iodide of potassium, caustic potash, distilled water, chloride of ammonium, oxalic acid (free from nitrogen compounds), distilled water (free from ammonia), zinc cumings, solution of sulphate of copper, 1 to 100.

(a) Nessler's solution—Iodide of potassium, 62.5 grams, dissolved in hot distilled water, 250 c. c., in 2-litre flask ; keep hot in water bath, and add, with constant shaking, saturated solution of bichloride of mercury, a few c. c. at a time, until the precipitate formed does not redissolve; then add caustic potash, 200 grams, dissolved in distilled water, 500 c. c. ; dilute to 1 litre and add 5 c. c. of bichloride of mercury, saturated solution ; let precipitate settle before using. The Nessler's solution should give a distinct reaction with 0.25 c. c. of the standard chloride of ammonium solution.

(b) Chloride of ammonium (strong solution)—Chloride of ammonium (resublimed), 0.315 grams, dissolved in distilled water (free from ammonia), 1 litre. 1 c. c. contains 0.0001 grams of ammonia (NH_3). Test this by titrating a portion with n/20 nitrate of silver solution. 1 c. c. should contain 0.0021 grams of chlorine.

(c) Chloride of ammonium (standard solution)—Chloride of ammonium solution (strong), 5 c. c.; dilute with distilled water (free from ammonia) to 50 c. c. 1 c. c.=0.00001 grams of ammonia (NH_3).

Oxalic acid—Powder and put in glass-stoppered bottle.

Zinc turnings coated with copper—Place in a casserole enough zinc turnings to nearly fill a 300 c. c. wide-mouthed glass-stoppered bottle ; fill casserole with water ; add a few c. c. of the sulphate of copper solution ; stir with glass rod until the zinc turnings are evenly and lightly coated with copper, wash thoroughly until free from copper sulphate solution and loose fragments of copper, and transfer to wide-mouthed glass-stoppered bottle by means of glass rod.

To determine the nitrogen in nitrates in a water, wash zinc copper couple in bottle three times with the water to be examined ; then fill bottle nearly full with the water. Add 0.25 gms. of the powdered oxalic acid, shake, place stopper loosely in bottle, cover with beaker and allow to remain until water becomes clear. Heating on water bath hastens reaction. Take out 25 c. c. and test for the presence of nitrites. If no nitrites are found all of the nitrogen contained in the water must have been reduced to ammonia, as nitrites is the intermediate step in the transformation of nitrogen as nitrates into ammonia. If no nitrites are found, take out a measured quantity of the water, make up to 50 c. c. in Nessler tube with water free from ammonia, and nesslerize as described in determination of ammonia. From the amount of ammonia thus obtained the amount of free ammonia found in the water must be subtracted, the remainder calculated to nitrogen, and the amount of nitrogen in nitrites found (if any) taken from this. The result will represent the amount of nitrogen contained in the nitrates.

NOTE—Before using zinc copper couple, make blank test, on water free from nitrogenous compounds. Ammonia should not be found.

Free Ammonia.—Reagents required: Carbonate of sodium (saturated solution) ; Nessler's solution ; chloride of ammonium solution (standard) ; distilled water (free from ammonia).

We have modified the form of apparatus for the determination of the Free and Total Ammonia as follows :

Upright condensers fastened by clamp to rod projecting from wall. Condenser tube made of block tin, and so coiled that intermittent dropping is prevented. For the retort is substituted a 2 litre glass-stoppered flask, having a tube joined on about half way up the neck. This tube is bent at right angles at a distance from the flask sufficient to prevent contact of flask with condenser. This tube is inserted in condenser worm so far that end is below water level. To heat contents of 2 litre flask, a flat burner giving about twenty small yellow frames. Fill retort about half full of water, add 2 c. c. of the carbonate of sodium solution, and distill until 50 c. c. of the distillate shows no reaction for ammonia with Nessler's solution. Add 500 c. c. of the water under examination, and distill off in separate portions of 50 c. c. into Nessler tubes until the last 50 c. c. distilled off shows no reaction for ammonia. The ammonia is estimated by matching the color produced by Nessler's solution in the distillates with that produced by the solution in one of a series of standard tubes, which latter are prepared by measuring into Nessler's tubes ¼, ½, 1, 2, 3 and 4 c. c. of the standard ammonium chloride solution, respectively, and filling to the 50 c. c. mark with distilled water free from ammonia. The tubes will then contain 0.0025, 0.0050, 0.01,

0.02, 0.03 and 0.04 milligrams of ammonia (NH_3) respectively. The analysis and comparison tubes should all be nesslerized at the same time, which is done by adding to each tube 2 c. c. of Nessler's solution, and mixing with glass stirrer. They should be allowed to stand at least five minutes before reading.

Albuminoid Ammonia.—Reagents required: Same as in determination of free ammonia, with the addition of permanganate of potassium; caustic potash.

Alkaline permanganate of potassium.—Permanganate of potassium, 8 grams, dissolved in distilled water (free from ammonia) 1 litre; add caustic potash, 200 grams, and boil in long-necked flask, to prevent much evaporation, for one hour; make up to 1 litre with distilled water (free from ammonia).

To determine the amount of albuminoid ammonia, proceed as in determination of free ammonia, with the exception of adding 50 c. c. of the alkaline permanganate solution, instead of 2 c. c. of carbonate of sodium solution. The result will be the total ammonia present. From this deduct the free ammonia as found; the result will be the amount of albuminoid ammonia.

In determining the amount of albuminoid ammonia in Peats waters, it appears in certain cases to be impossible to arrive at a point where no ammonia is given off. Drown proposes to take off a certain number of distillates, say 6, and then stop. We, in practice, continue distillation until the last 50 c. c. taken shows less than 0,0025 milligrams of ammonia. We have suggested that 500 c. c. of water be used for each of the ammonia determinations. This is applicable to Croton, or to a water which apparently produces no reaction with Nessler's solution on 50 c. c. of the raw water. If the raw water shows say 0.01 milligrams, or more, of ammonia on 50 c. c., less than 500 c. c should be taken for analysis; or if the water contains much ammonia, 200 c. c. can be taken and 300 c. c. distilled off. 50 c. c. of this can be nesslerized and the ammonia calculated to a litre.

The successive distillates, in the determination of both free and total ammonia, should exhibit a steady decrease in the amount of ammonia contained. If this is not the case, the analysis must be repeated.

Hardness, Equivalent to Carbonate of Lime, before and after Boiling.—1st. By soap solution. Reagents required: A neutral hard soap, containing not more than 12 per cent. of water; alcohol, 90 per cent.; calc spar (crystalized) free from alkalies and chlorides; hydrochloric acid, C. P.; distilled water.

(a) Soap solution (strong)—Soap, 10 grams, cut into small pieces, dissolve in 1 litre of 90 per cent. alcohol and filter.

(b) Soap solution (standard)—Soap solution (strong), 100 c. c.; add to this alcohol (90 per cent.), 33 c. c.; and distilled water, 100 c. c. Shake gently, allow to stand until clear, and filter.

(c) Standard solution of calcium chloride—Calc spar, 1 gram, dissolved in small amount of hydrochloric acid; evaporate to dryness on water bath, with repeated additions of distilled water, until all uncombined acid is driven off. Dilute this to 1 litre with distilled water. 1 c. c. is equivalent to 0.001 gram of calcium carbonate.

The soap solution is standardized as follows: 100 c. c. of distilled water is run into a glass-stoppered bottle of about 250 c. c. capacity. 5 c. c. of the calcium chloride solution is run in from

a burette, and the soap solution added, not more than 0.25 c. c. at a time, shaking well after each addition, until the addition of the last 0.25 c. c. produces a permanent lather. The lather formed should remain on the surface of the liquid in the bottle for five minutes without breaking. Taking the amount given, 1 c. c. of the soap solution should be equivalent to about 0.0005 grams of calcium carbonate. The amount of the calcium chloride solution used should be about equivalent to the amount of lime salts contained in the water to be examined.

Hardness Before Boiling.—100 c. c. of the water is measured into a bottle, and the analysis thereafter conducted as in standardization of soap solution.

Hardness After Boiling.—100 c. c. of the water and 100 c. c. of distilled water are measured into a 250 c. c. flask and boiled until the bulk is reduced to 100 c. c. This is filtered into a bottle, cooled, and the analysis thereafter conducted as in hardness before boiling.

NOTE.—If more than 15 c. c. of soap solution are required for a given water, a smaller quantity of the water should be used, making up to 100 c. c. with distilled water.

2d. By titration (Hehner's method).

Estimation of hardness without soap solution. (Method of S. Hehner, Analyst, 1883, VIII, p. 77).

Solutions required:

(a) N_{100} sulphuric acid, containing 0.98 grams, H_2SO_4 per L. (20 c. c. of N_2 sulphuric acid diluted to 1 L).

(b) N_{100} carbonate of soda (containing 1.060 grams pure dry sodium carbonate per litre).

Temporary hardness. Take 100 c. c. of the water, add a few drops of methyl orange indicator, heat nearly to boiling, run in Solution A from burette to neutrality. Each c. c. equals one part of calcium carbonate present as bicarbonate per one hundred thousand.

Permanent hardness. Take 100 c. c. of the water, add excess of Solution B from burette (as many c. c.'s as there are total solids per 100,000), evaporate nearly to dryness in a platinum dish, dissolve in recently boiled distilled water, filter through a small filter, wash three or four times, and titrate the filtrate (boiling hot), with Solution A, after adding indicator. The number of c. c. of B used minus the number of c. c. of A used is equal to permanent hardness.

Permanent hardness is equal to hardness after boiling.

Temporary plus permanent hardness is equal to hardness before boiling.

Total Solids.—100 c. c. of the water are measured into a previously weighed platinum dish, and evaporated to dryness on the water bath. The disk is then transferred to the air bath, and heated for one-half hour at a temperature of 130 degrees F. The dish is then placed in a desiccator, cooled and weighed.

Organic and Volatile (Loss on Ignition) and Mineral Matter.—The contents of the dish are now heated to faint redness over a Bunsen burner, until the organic matter is driven off. The dish is then placed in a desiccator, cooled and weighed. The loss represents the organic and volatile matter, and the residue the mineral matter.

In waters containing a large proportion of carbonates, it will be necessary to restore the carbonic acid lost on ignition. This is done by moistening the residue left after ignition with distilled water charged with carbonic acid, reheating on the water bath and in the air bath, and weighing.

When on ignition no blackening takes place, unless the water contains but a trace of organic matter, the absence of blackening is a sure sign of the presence of nitrates in large amount. This, therefore, becomes a check on the determination of nitrates, for if the amount of nitrates found was low, and yet no blackening took place, this would indicate that some error had occurred, and that the nitrates as found were in reality too low. The reverse of this is also true.

In the analysis of water as given, the vessel containing the sample of water is taken at once to a room from which all reagents containing ammonia or nitrogen compounds are excluded, and which is partitioned off from the main laboratory. Water analyses only are conducted in it. The determinations of the nitrogen in nitrites and nitrates and also of free and albuminoid ammonia, are at once commenced, and not until then are the mineral determinations started.

2d. Examinations of Milk.

During the year 392 samples of milk have been analyzed. The adulteration detected has been, as formerly, the addition of water, the removal of cream, or both.

The following shows the relative amount of adulteration of each kind found during the year. The results are expressed in percentage of the whole :

	1891.	1892.
	Per cent.	Per cent.
Adulteration by addition of water	53⅓	43
Adulteration by removal of cream	27	30⅓
Adulteration by addition of water and removal of cream	19⅔	26⅔

Method of Analysis.

The methods of determining the purity of milk in use in this laboratory are as follows :

(a) *Total Solids.*—Five grams of the sample (which must be previously thoroughly mixed), are weighed in a previously tared shallow flat-bottom lead capsule, using a pipette. The dish is placed on a water bath and when the solids are apparently dry, transferred to an air bath at 100 to 105 degrees C. for two and a half hours. The dish and contents are transferred to a desiccator, cooled and weighed, and returned to the air bath for half an hour, again cooled and weighed, and this process repeated until the weight is constant. The final weight, less the weight of the dish, gives the total solids.

Salts or Ash.—In case the salts are to be determined, a platinum dish is used for the total solids, and these, after final weighing, are ignited at a very low red heat until the ash is white or only slightly grayish. This is best done by the use of a small rose burner, the dish being supported about one inch above the same and covered with a platinum or nickel cover. A great saving of time will be effected if a few drops of pure alcohol are poured on the solids and ignited. The cover is not to be put on until the mass is thoroughly charred. The dish and contents are cooled in a desiccator and weighed ; the weight of dish subtracted gives the weight of ash or salts in the sample.

(b) *Fat.*—The method employed is that of Adams, the details being as follows : The paper used is strong, somewhat heavy, filter paper, Schleicher and Schülts, No. 598. This is cut in strips, 20 inches long by 2½ inches wide. A number of these strips are rolled into coils, placed in

a large extraction apparatus and thoroughly extracted with a mixture of 10 per cent. acetic acid and 90 per cent. alcohol. (One hour of this treatment has been found sufficient.) The coils are removed from the apparatus, thoroughly washed with hot water, dried and re-extracted in another apparatus with ether (one hour treatment). The coils are now absolutely free from any substance which could be extracted with ether.

The analysis is conducted as follows: About five grams of milk are accurately weighed in a tared platinum dish. A paper coil, thoroughly dried, held in shape by a loop of platinum wire, is then placed on end in the dish until the milk is absorbed. The dry end of the coil is then used to remove as much as possible of the remaining milk from the dish, the latter is again weighed; the difference between this weight and the first weight gives the weight of milk used. With a little care the milk can be so completely absorbed that the accuracy of the analysis could not possibly be impaired by any selective action the paper could have in absorbing the milk. The coil is hung in an air bath and dried at 100 to 105 degrees C. until a cold piece of glass, held at one end of the warm coil, shows no trace of condensed moisture. (This requires about two hours' drying.) The coil is now placed in a small Knoefler extraction apparatus, the latter connected with an upright condensed and a previously tared flask and extracted for at least two hours with anhydrous ether. In order to save the ether, the coil and inner syphon tube are removed, a tube closed at one end inserted and the ether in the flask distilled into the same. The flask is now dried, first on the water bath and then in an air bath, to constant weight, at a temperature of 100 to 105 degrees C. (about one-half hour drying). The process of extraction is repeated until there is no longer a gain in weight of fat. The weight of the fat is calculated in the usual way. Before weighing the flask it should be dried in the air bath and allowed to cool in the air. The flask containing the fat should be cooled in the same way. Care must be taken not to electrify the flask by rubbing. The ether used must, of course, be tested for non-volatile residue, alcohol or water.

NOTE.—Fat free paper can now be purchased cut ready to be rolled into coils. It must, of course, be tested for fat before using.

The above methods suffice for the detection of adulteration by addition of water or removal of cream, which are the common forms of adulteration.

Method of Calculation of Adulteration of Milk.

The standard adopted—the result of a very large number of analyses made of milk taken from the cows in presence of the Inspectors, is,

Water	88.00	per cent.
Fat	3.50	"
Total solids	12.00	"
Solids not fat	8.50	"

Other Methods of Testing Milk.

(a) Detection of adulteration by water. This may be accomplished by the use of the lactometer. As used by this Department, the lactometer is a delicate hydrometer, which indicates specific gravity at a temperature of 60 degrees F. between 1.00000 (the specific gravity of pure water) and 1.03480. On the scale the specific gravity of water is indicated by 0 degree, the specific

gravity of 1.03480 by 120 degrees, the space between 0 and 120 being divided into 120 equal parts. The 100-degree mark indicates a specific gravity of 1.02900. The results of many thousand tests by Inspectors of this Department have conclusively shown that milk from a healthy cow in normal condition will never show a specific gravity less than 1.029 (=100 degrees lactometer) at a temperature of 60 degrees F. If, therefore, a given sample of milk stands below 100 degrees on the lactometers at 60 degrees F., the sample has been adulterated by addition of water. The space between 0 degree and 100 degrees being divided into 100 equal parts, each standing below 100 degrees, we are certain that water has been added. If the appearance and taste are as above stated, the lactometer floating at some point above 100 degrees, the milk may be skimmed, or skimmed and watered.

As skimmed milk has a specific gravity much greater than whole milk, the cream, the lightest constituent, having been removed, it will stand high when tested by the lactometer, and will have, of course, a thin bluish appearance and a flat taste. On the other hand, cream will stand at points much below 100 degrees on the lactometer ; but it is evidently impossible to confound cream with milk, and much less with milk that has been watered. If the lactometer floats at some point above 100 degrees, the appearance of the film being white and the taste of the milk creamy, we may assume that the milk has not been adulterated by the addition of water, or by the removal of cream.

Should the temperature of the milk tested be above or below 60 degrees F., an approximate calculation can be made, giving the point at which the lactometer would stand at 60 degrees F., as follows : Find the difference between the indicated temperature and 60 degrees F., divide this by 2½ and the quotient, if the temperature is above 60 degrees, add to, and if below 60 degrees subtract from, the degree at which the lactometer floats. This calculation, approximate at best, only holds good between 45 degrees and 75 degrees F. In all cases when accuracy is essential, the milk to be tested should first be brought to 60 degrees F.

(b) Detection of adulteration by skimming (removal of cream)—

(1) Can be approximately accomplished by the use of the lactoscope, that known as Feser's being a convenient form to use. Results obtained are percentages of fat.

(2) By use of the cream gauge. Results obtained being per cent. of cream. Good milk should show from 14 to 16 per cent. of cream, varying with the age of the sample, length of time it was in transit, etc.

Other adulterants may be detected as follows :

Salt.—The ash obtained above is dissolved in an excess of dilute nitric acid. An excess of n/20 silver nitrate solution is now added, and also a few c. c. of a solution of ferric sulphate, free from chlorides. The excess of silver nitrate is now determined by titration with n/20 solution of ammonium sulphocyanate, the end reaction being shown by the red color produced with the ferric sulphate. The difference between the excess of silver nitrate thus determined and the amount originally added, corresponds to the amount of chlorine in the ash.

Borax.—The ash as above obtained may be tested for borax by treating with a few drops of concentrated sulphuric acid, moistening with one or two c. c. of methyl alcohol, and igniting in a dark place, when, if borax is present, the characteristic grass-green flame is readily seen.

Annato or Butter Color.—The method used is that devised by Babcock (Twenty-ninth Annual Report, Inspector of Milk and Vinegar, Boston, 1888). It is briefly, as follows: About 100 c. c. of milk, made strongly alkaline with sodium carbonate, are placed in a small cylinder, a strip of beany filter paper about one-half inch wide and five inches long is introduced, and the whole allowed to stand in the dark for twelve hours. If annato is present, the strip of paper after washing will have a pale salmon color, which is changed to a decided pink by moistening with solution of stannous chloride, and, after drying at the temperature of the room, to a bluish color on treatment with strong sulphuric acid.

Alkaline Carbonates.—May be detected by the strong alkaline character of the ash, and by its effervescing with dilute acids. May be estimated by titrating the water solution of the ash with n/10 N. sulphuric acid, using lakenoid as an indicator.

Salicylic Acid.—May be detected by coagulating about 500 c. c. of the milk with a few drops of sulphuric acid, and gently warming, filtering, evaporating filtrate to small bulk and shaking with a mixture of equal parts of ether and benzol. The mixture of ether and benzol is drawn off and the ether evaporated on water bath, the benzol, reduced to small bulk and shaken with a small bulk of warm water in a test tube, separated from the water by filtration through a wet filter, the filtrate cooled and a drop of a very dilute neutral solution of ferric chloride added, when if salicylic acid is present, the characteristic violet color is produced.

Nitrates.—These are not present in normal milk. They may be quantitatively estimated by a modification of Gladstone and Tribe's method for the determination of "nitrogen in nitrates" in water. Two hundred grams of milk, warmed to 80 degrees F., are coagulated by the addition of a few drops of acetic acid. The serum is filtered out, the nitrates reduced by the zinc copper couple, and the solution nesslerized as in water analysis. The ammonia found is calculated to nitrates.

3*d. Examination of Condensed and Preserved Milk.*

Condensed Milk (containing no cane sugar).

Total number of samples	140
Number of samples (thick)	86
Number of samples (thin)	54
Highest amount of fat in thick	13.60
Lowest amount of fat in thick	8.72
Average amount of fat in thick	11.81
Highest amount of fat in thin	14.45
Lowest amount of fat in thin	12.15
Average amount of fat in thin	13.45

Average Analysis of Condensed Milk.	Thin.	Thick.
Water	51.30	58.50
Fat	13.45	11.81
Total solids	48.70	41.50
Solids not fat	35.25	29.69

All samples of condensed milk analyzed appear to have been made from milk containing the requisite amount of fat.

Thin condensed milk is milk condensed at a temperature not exceeding 125 degrees F., while the "thick" is milk which at the end of the operation of condensing has been heated for a few minutes to 180 degrees F. This so-called superheating gives a yellow color and greater viscosity to the product.

All of the different brands of preserved milk were analyzed with the following results:

Analysis Number.	Water.	Fat.	Total Solids.	Solids Not Fat.	Ash.
6880	28.58	11.11	71.42	60.31	2.05
6881	31.45	9.20	68.55	59.35	2.00
6882	30.13	9.30	69.87	60.57	1.98
6883	27.83	10.45	72.17	61.72	1.98
6884	29.35	9.55	70.65	61.10	1.80
6885	29.40	9.65	70.60	61.95	1.99
6886	26.22	10.05	73.78	63.73	2.05
6887	25.37	9.88	74.63	64.75	1.95
6888	22.32	9.65	77.68	68.03	2.38
6889	25.10	10.00	74.90	64.90	1.95
6890	27.50	10.20	72.50	62.30	2.05
6892	29.59	10.20	70.41	60.21	1.95
6893	27.29	9.60	72.71	63.11	1.99
6896	25.85	9.20	74.15	64.95	1.93
6897	27.99	9.20	72.01	62.81	2.01
6898	71.30	8.60	28.70	20.10	....
6900	27.20	7.85	72.80	64.95	1.75
6902	28.80	9.55	71.20	61.65	1.97
6906	28.20	9.70	72.80	63.10	2.03
6907	28.95	8.95	71.05	62.10	1.90
6910	22.47	8.05	77.53	69.48	1.75
6914	27.85	9.15	72.15	63.00	2.00
6927	26.75	9.40	73.25	63.85	1.95
6934	23.50	9.00	76.50	67.50	1.95

Methods of Analysis of Condensed and Preserved Milk.

Condensed Milk.

Total Solids and Ash.—Two grams of the milk are weighed in a tared platinum milk dish, about 5 c. c. of water are added, and a thorough mixture effected by stirring with a small glass rod. The rod is washed by allowing a fine stream of water from a wash bottle to play on it while holding it a little above the dish. The total solids and ash are now obtained as given above under milk. In case the ash is not required, a lead capsule is used in place of platinum dish.

Fat.—Two grams are weighed as in total solids, solution being effected in the same manner, and the milk is carefully soaked on a coil as in determination of fat in milk given above.

Milk Sugar.—Determined as in preserved milk given below.

Other adulterants are determined as previously described under milk, the condensed milk being previously diluted if necessary.

Preserved Milk.

Total Solids and Ash.—Forty grams of the previously thoroughly mixed samples are weighed in a tared beaker, thoroughly mixed with distilled water, and diluted to 100 c. c. 5 c. c. of the solution (= 2 grams) of the milk are introduced by means of a pipette into a tared platinum dish, and the total solids and ash determined as under milk.

Fat.—A prepared coil is fastened at one end by means of a small tack. The other end is held by the left hand and coil extended. Five c. c. of the diluted milk as prepared above are gradually run on the paper by means of a pipette, distributing over the whole surface as evenly as possible. The paper is grasped at each end and held at some distance over a rose burner until surface dried. It is then rolled up, kept in place by a loop of platinum wire, and dried in air bath at 100 to 105 degrees C., as described for fat under milk.

Sugar Determination.

Preserved Milk.

The determination of milk sugar and cane sugar in preserved milk is performed after the following method:

1st. Standard solutions used:

(a) Permanganate of potash.

(b) Ammonio-ferric alum.

(c) Citric acid.

(d) Fehling solution.

2d. Determination of milk sugar.

3d. Determination of cane sugar.

1st. (a) Permanganate solution:

6.5 grams permanganate potash dissolved in 1 litre of distilled water. Standardize in terms of metallic iron with C. P. oxalic acid.

0.011239 grams Fe. = 0.010011 grams lactose.

0.011239 " = 0.006958 " cane sugar.

(b) Ammonio-iron alum:

Ammonio-iron alum	200 gms.
H_2SO_4 (conc.)	100 c. c.
Water	1 litre.

(c) Citric acid solution:

Fifty per cent. solution in water.

(d) Fehling solution :

(1)	Rochelle salts	346 gms.
	Caustic soda	80 "
	Water	1 litre.
(2)	Copper sulphate	69.28 gms.
	Water	1 litre.

2d. Determination of Milk Sugar :

Twenty grams of the preserved milk are weighed out and dissolved in water, making up to 300 c. c. To this two or three drops of acetic acid are added and the whole vigorously stirred with a glass rod to insure complete and granulated coagulation (care should be used not to add more acid than is absolutely necessary and to perform the operation in the cold). Allow to settle for a few minutes and filter through a dry, ribbed filter, repeating the filtration if the filtrate is not clear. Ten c. c. of the filtrate are then run into a beaker containing about 50 c. c. To this is added 15 c. c. to 20 c. c. of Fehling solution and 15 c. c. of water, the whole being then heated on the water bath until complete separation of copper oxide takes place (twenty minutes to one-half an hour, not longer). Filter through wet filter (not ribbed) by decantation, washing three to four times with hot water, allowing to stand on water bath each time before filtering. The oxide of copper is then quickly dissolved with ammonio-ferric alum solution in the beaker. If any oxide has run on the filter, dissolve this by running the alum solution through the filter. Combine the solutions and add about 300 c. c. of water. This is then titred with the standard permanganate solution. From this data the amount of lactose is calculated, knowing the value of each c. c. of permanganate in terms of lactose.

3d. Determination of Cane Sugar :

One hundred c. c. of the coagulated filtrate, as obtained above, is run into a beaker, and 100 c. c. water and 5 c. c. citric acid solution added. This is then evaporated at gentle heat to 100 c. c. and allowed to cool. 5 c. c. of this solution is run into a beaker holding about 100 c. c. and treated in the same manner as for the determination of milk sugar. Double the amount of Fehling solution and double the amount of water should be used, however. After titration with permanganate, we have the total amount of sugar, and from this should be deducted the amount of milk sugar as previously determined and the result will be cane sugar.

Microscopical Examination.—Used for the detection of colostrum, pus, blood, starch and other insoluble substances.

Experimental Analyses.

Of these 1,069 were made during the year. The more important are as follows :

Methods for the determination of milk sugar and cane sugar in preserved milk.

Determination of soluble and insoluble albuminoids in foods.

Estimation of arsenic in textile fabrics.

Estimation of lead in colors used in the coloring of snuff and in prepared snuff.

Estimation of nitrites in water.

Estimation of nitrates in water.

Influence of discharges of sewers on composition of river water.

Estimation of poisonous metals in canned goods.

TUBERCULOSIS.

Milk (1).

The prevention of the sale of milk from cows suffering with tuberculosis is a matter of the utmost importance, but as matters are at present prompt and efficient action is not possible.

When a cow affected with tuberculosis is found at the slaughter-houses, the locality from which the cow came is ascertained, if possible, and the facts at once forwarded to the State Board of Health, and in case the cow is from a herd supplying milk to the city, the owner is notified to stop sending milk pending a careful investigation by this Department. If the Inspectors of this Department had the legal authority, not only to inspect the condition of cows from which milk is sent to the city and the condition of the farms as well, but had the power to destroy diseased cows, and insist on cleanliness in the handling and storing of the milk previous to and during shipment, the consumers would be benefited as follows:

1st. Prevention of sale of milk from diseased animals.

2d. Prevention of the sale of unclean milk or milk rendered unwholesome from improper storing and handling.

3d. Prevention of the sale of stale milk.

INSPECTION OF MILK.

The inspection of milk has been carried out as in former years, as follows:

The Inspectors are provided with a lactometer and thermometer, which they have previously tested themselves, a tin cylinder for holding the milk to be tested, an inspection book and a label book (chapter 627, Laws of 1889), sample bottles holding six ounces, through the necks of which holes have been drilled, four-ounce bottles for laboratory samples, corks, wires, lead seals and a sealing-iron. A Sanitary Officer is detailed to accompany each Inspector as a witness.

The city is divided into seven milk inspection districts, which are enlarged or contracted as the number of milk stores therein increase or diminish, in order that each Inspector may have about the same number of places under his supervision. There are at present in this city between four and five thousand places where milk is sold.

Each Inspector is required to be on duty at least eight (8) hours daily, except in special cases. He is required to have full knowledge of the number and character of the places where milk is sold in his district, of all points where milk enters his district from without the city, of the amount of milk so brought, and in general to keep himself fully posted as to the milk trade in his district. He is shifted to another district every three weeks.

From May to November, inclusive, he is required twice a week to inspect the milk early in the morning (from 4 to 8.30 A. M.) as it is delivered by dealers to households.

At least twice a month, when the temperature is not so low as to freeze the milk, the Inspectors are required to examine milk as it comes into the city, at ferries or railroad depots. These inspections usually last from 11.30 P. M. to 5 A. M. Frequent attendance at court is necessary.

The routine of milk inspection is as follows: The Inspector enters the store and asks the questions which are necessary to fill in the blanks in his inspection book. Under the head of "Remarks" he notes the location of the milk cans in the store, whether or no there is a dipper in the can, and, in general, all points which may be of use in case the dealer is brought to trial. In

the round circle on his pad he notes the marks on the cover of the milk-can, which indicate the name and location of the shipper of the milk. He then thoroughly mixes the milk to be examined, pours a sample into the tin cylinder, takes the temperature and notes the lactometer standing. If the milk stands below 100 degrees, at a calculated temperature of 60 degrees, he then warms or cools the milk exactly to 60 degrees and notes the lactometer standing. If the lactometer standing is below 100 degrees at 60 degrees, the appearance and taste also indicating that the milk has been watered, two samples are taken, one to be brought to the laboratory for confirmatory analysis, while the other is sealed by passing a wire through the cork and holes in the bottle neck, wrapping this once round the bottle neck, slipping a seal over the ends of the wire, and sealing this securely by means of the sealing-iron, which stamps "Health Department, City of New York" on one side, and on the other the distinguishing number of the Inspector. A label, in conformation with chapter 627, Laws of 1889, is then filled out and pasted on the bottle and the latter delivered to the dealer or party in charge of the store. The milk is then destroyed by pouring it into the gutter or into the sink in the store. The sample for the Assistant Chemist is marked with the Inspector's distinguishing letter, and the number of the inspection, together with the lactometer standing. A slip duplicating the Inspector's memorandum of the inspection is left with the Chief Chemist for his information. When the report of the analysis is received from the Assistant Chemist, the Chief Chemist determines (by advice of the Attorney and Counsel and Sanitary Superintendent) whether or not the dealer shall be arrested and at once notifies the Inspector. Should the appearance, taste and lactometric standing of a sample of milk indicate that it is skimmed, or skimmed and watered, the course of procedure outlined above for watered milk is carried out, with the exception that the milk is not destroyed. In the matter of "early morning" inspections of dealers' wagons, or of night inspections at ferries or depots, the same plan is followed.

Nearly all of the places in the city where ice cream is made have been inspected, to insure cleanliness and the use of proper material and vessels.

A comparison of the work performed by the Inspectors, during the years 1891 and 1892, is given below:

	1891.	1892.
Inspections	96,377	100,070
Specimens examined	146,822	158,465
Complaints investigated	44	43
Nights of special work	74	97
Quarts destroyed	1,744	4,359
Arrests	186	191
Held on bail	170	186
Amount of fines	$4,286	$4,825

Increase in number of inspections over 1891	3,693
" " specimens examined	11,643
" " quarts destroyed	2,615
" " arrests	5
Increase in amount of fines	$539

The following table shows the total receipts of milk, cream and condensed milk, over all roads, for 1891 and 1892:

	Milk (in Cans). Including Bottled.		Cream (in Cans).		Condensed Milk (in Cans).	
	1891.	1892.	1891.	1892.	1891.	1892.
January	513,090	570,196	6,511	7,670	6,328	4,906
February	484,048	538,637	7,148	8,191	5,521	4,849
March	500,549	592,293	7,415	8,237	6,218	5,316
April	538,288	588,307	11,123	14,179	6,212	5,050
May	575,210	646,253	15,979	21,828	6,616	5,478
June	622,410	692,494	23,295	31,038	6,019	5,431
July	598,453	658,715	18,834	29,229	5,756	5,208
August	578,245	638,505	17,471	21,714	5,636	5,424
September	585,180	583,057	15,051	13,214	4,873	4,758
October	591,557	594,845	10,407	11,223	4,956	3,571
November	561,032	554,514	9,154	10,227	4,919	4,654
December	557,033	564,061	8,710	10,886	5,058	5,079
Total	6,705,095	7,221,877	151,098	187,636	68,112	59,724
Equivalent in quarts	268,203,800	288,875,080	6,043,920	7,505,440	2,724,480	2,388,960
Increase in quarts, 1892 over 1891.	.....	20,671,280	.....	1,461,520	.....	*335,520

* Decrease.

Receipts of Milk and Cream, etc., over the Different Railroads, etc.

A system of issuing permits for the sale of milk, cream and condensed milk to all venders of milk throughout New York City is, in the opinion of the Chemist, eminently desirable. A brief outline of the system, as given in report for 1891, is repeated here: Each vender would make application to this Department for a permit to sell milk, etc., in which application should be stated his name and address and the amount of milk, cream or condensed milk he purposes to sell daily. The source from which the milk, etc., is to be obtained should also be stated. Permits would now be issued, which would be of three classes. The first class would be issued to venders who desire to sell milk at a specified place; the second class to milk peddlers, and the third class to those who desire to engage in the sale of milk by both methods. Thereafter, any vender convicted of a violation of section 186 of the Sanitary Code, or of other sections relating to the sale of adulterated milk, would be warned that a second conviction would result in the immediate revoking of his permit. The advantages to be derived from this system would be:

1st. The driving out of business of all venders habitually selling adulterated milk.

2d. A great improvement in the quality of milk brought into the city, through the fact that venders, for their own protection, would insist upon being furnished by producers with an unadulterated article.

3d. The prevention of the sale of milk from cows improperly fed and cared for, as permits would be refused to venders dealing in the milk from such animals.

FRUIT AND FOODS.

I.

The inspection of fruit and foods has been carried on as in the past years. Particular attention has been given the quality of the goods sold at auction, and to the inspection of the markets and venders on Ludlow, Hester and Mulberry streets on the east side, and on Ninth avenue, between Forty-second and Thirty-seventh streets, on the west side.

The banana trade has been reduced, owing to a lesser demand and principally on account of the stringent quarantine laws by foreign countries against New York. (Baracoa, Aspinwall and Jamaica, from whence the receipts are heaviest, quarantined eighteen days.) To offset this the pineapple trade has largely increased. More pines arrived in New York this year than ever before. The unprecedented receipts were caused by the previous year's prosperity of the shippers, which was conducive to larger plantings. Florida likewise increases each year in its supply. The general condition of the stores and markets have greatly improved, particularly on account of the threatened cholera invasion, dealers being only too anxious to help suppress that which might ruin their business. Stores, stands, railroad depots, docks, auction houses, markets and licensed venders were visited daily, and the statistics herein below mentioned have been carefully computed from various sources and Custom House manifests :

RECEIPTS.

Fruits.

Bananas, bunches	3,250,000
Oranges, boxes and barrels	1,900,000
Apples, barrels	825,000
Foreign and domestic grapes, kegs, crates and baskets	3,000,000
Small fruits—peaches, pears, plums, berries of all kinds, crates, barrels and baskets.	5,000,000
Pineapples	13,675,000
Foreign and domestic dried fruits, cases, bags and boxes	7,860,000
Nuts, foreign and domestic, packages	2,000,000
Total	37,510,000

Vegetables.

	Pounds.
Carrots	185,000
Beets	6,750,000
Cabbage	31,000,000
Onions	11,000,000
Potatoes, sweet and Irish	562,000,000
Small vegetables, miscellaneous, and eggs in cases and barrels	27,000,000
Total	637,935,000

Canned Goods.	Cases.
Tomatoes	465,000
Corn	329,000
Beans, squash, asparagus, spinach, etc	811,000
Fruits of all kinds	930,000
Lobsters, salmon, oysters, sardines, mackerel, etc	345,000
Foreign sardines and domestic canned meats	2,750,000
Total	5,630,000

Recapitulation.	
Fruits, packages	37,510,000
Vegetables, pounds	637,935,000
Canned goods, cases	5,630,000

Comparing the amount of fruit seized during 1892 with 1891, we find that 980,000 pounds more fruit were seized during 1892 than in 1891. This was owing in a great measure to the cholera, as the sale of fruit and vegetables almost ceased for a time, and large quantities spoiled on the dealers' hands.

INSPECTION OF MEAT.

I.

This has been performed as in the past year, except in the inspection of live cattle, as no cows are allowed to be slaughtered except between the hours of 8 A. M. and 5 P. M., and only in the presence of an Inspector. The Inspector examines each carcass, and should any part of it be affected with tuberculosis the entire carcass is seized and conveyed to the offal dock. The killing bed is then washed and disinfected before another animal is killed. The place from which the cow came is ascertained and reported to me, when, by advice of the Sanitary Superintendent, the Secretary of the State Board of Health is at once informed. During the past year 9,796 cows have been inspected and 26 seized and sent to the offal dock.

II.

On August 23d Texas fever broke out among the cattle at the Union Stock Yards. A quarantine was at once established, and, with the co-operation of the United States Inspectors, continued until September, at which time the disease ended. During the epidemic the yards, pens, alleys, etc., were disinfected with carbolic acid and with chloride of lime. The latter, in partial solution in water, being sprayed on the wood with a force pump, thus driving the disinfectant into all cracks and crevices. Particular attention was paid to the disinfection of the earth around posts, etc., as well as to the manure.

III.

The inspection of meats at other points besides at the slaughter-houses has been carried on with great care and vigilance. During the year 5,996½ carcasses of "bob" veal were seized, or about 364,000 pounds. This is an excess over last year of 107,000 pounds. The seizure of meat of all kinds, viz., sheep, beef, hogs, veal, game and poultry, was 978,000 pounds in excess over last year.

During the past year there were slaughtered in the city :

	Carcasses.	Pounds.
Cattle	459,909	144,100,000
Hogs	1,183,974	118,397,400
Sheep and lambs	1,683,000	30,600,000
Calves	226,065	21,154,000

—and there were brought into the city :

	Pounds.
Live poultry, 1,153 carloads	.....
Dressed poultry, 384,196 packages	.....
Dressed beef, 150,000 carcasses	105,000,000
Dressed sheep, 362,468	10,874,040
Dressed hogs, 151,700	15,170,000
Dressed calves, 205,427	14,379,890

A very large amount of game, tenderloins, etc., are kept in the freezers. These are inspected weekly.

INSPECTION OF FISH.

I.

Particular attention has been paid during the past year to the inspection of fish as offered for sale by venders, as well as in Fulton Market ice-houses, freezers, etc. Over 280,000 pounds more were seized in 1892 than in 1891. This was due in part to the cholera, people would not buy fish, oysters, clams, etc., and large amounts were spoiled in store.

During the year the amount of fish brought into the city was—

	Pounds.
Fresh fish	345,000,000
Salt and dried fish	55,000,000

OFFENSIVE TRADES.

I.

The same general system was carried out as during the past year, of daily inspections of slaughter-houses and allied industries, and of gas-houses, as these would be the principal sources of nuisances.

The general condition of the slaughter-houses, cattle yards, etc., has improved. On the east side, between Forty-eighth and Forty-fourth streets, the old slaughter-houses were torn down and a new one is being erected. This will be fitted with all of the modern improvements. The slaughter house of Schwarzschild & Sulzberger was destroyed by fire in May. A new one will be erected on the site of the burned building, so that on the east side of the city all of the slaughter houses with the exception of three will be by May 1 of the most improved style and in the best sanitary condition.

The cattle yards on the west side have been very much improved, many of them having been repaved, graded, etc., and as the sewers in this district now discharge at the end of the piers, the nuisance caused by stagnant sewer water in the basins formed between the docks is done away with.

II.

During the past year the amount of blood and offal produced was:

Blood	22,000,000 pounds.
Offal	112,000,000 "

The nuisances caused by the manufacture of gas have been very few in number, the principal sources being leaks in mains and pipes. These are repaired by the gas companies usually within twenty-four hours of the telephone notification which is sent as soon as the complaint is received.

The quantity of gas manufactured in this city was about as follows:

Company.	Location of Works.	Kind of Gas.	Average Daily Output.	Miles of Mains in Use.
Consolidated..	Eighteenth street and Tenth avenue	Coal	35,000,000	801
"	Forty-second street and Eleventh avenue	"		
"	Forty-fourth street and Eleventh avenue	Water		
"	Fourteenth street and Avenue C	"		
"	Twenty-first street and Avenue A	"		
"	Ninety-ninth street and First avenue	"		
"	One Hundred and Tenth street and First avenue	"		
Mutual	Twelfth street and East river	"	2,500,000	140
Standard	One Hundred and Fifteenth street and East river	"	1,900,000	160
Equitable	Forty-second street and East river	"	4,500,000	150
Northern	West Farms	"	175,000	35
Central	Foot East One Hundred and Thirty-ninth street	"	500,000	62
Pintsch	One Hundred and Fifty-fourth street and Railroad avenue	Oil	50,000	....

III.

The nuisance caused by smoke has increased slightly, as is to be expected from the increase in the amount of coal consumed.

Year.	Tons Anthracite.	Tons Bituminous.
1891	4,000,000	1,000,000
1892	4,250,000	1,100,000

The burning of sawdust, shavings, etc., has caused more or less nuisance. Careful firing and the use of proper smoke consumers are the remedies for these nuisances.

Offensive odors from Hunter's Point have only been noticed at very infrequent intervals, and then only lasting a very short time.

The policy of endeavoring to have a nuisance abated at once by showing the party creating it that it is really a nuisance and one that should be abated, has been carried out and many have been abated without orders or other legal proceedings.

In conclusion, I would state that the Assistant Chemists and Inspectors have taken much interest in their work, and have performed the same in a manner very creditable to the Department.

Respectfully submitted,

EDWARD A. MARTIN, Chemist.

NEW YORK, December 31, 1892.

To the Board of Health, City of New York:

GENTLEMEN—I have the honor to submit the following report of the Willard Parker and Reception Hospitals for the year ending December 31, 1892.

WILLARD PARKER HOSPITAL.

General Statement.

1892.	MALE.	FEMALE.	NATIVE.	FOREIGN.	TOTAL.	MOTHERS.
Remaining in Hospital December 31, 1891.....	18	26	32	12	44	4
Admitted.....	200	292	329	163	492	75
Total.....	218	318	361	175	536	79
Discharged.....	147	237	234	150	384	77
Died.....	55	58	95	18	113	..
Total.....	202	295	329	168	497	77
Remaining in Hospital December 31, 1892.....	16	23	32	7	39	2

Total number of cases treated.....	536
" mothers accompanying.....	79
Total number of patients and mothers.....	615

Total number of cases treated, scarlatina, 212; mortality per centum.....	16
" diphtheria, 311; "	25.4
" cholera suspects, 13.	

Remaining in Hospital, December 31, 1891.

	Class.				Males.			Females.			Total Males and Females.	Mothers.
	City.	Public Institutions.	Walked In.	Quarantine.	Native.	Foreign.	Total.	Native.	Foreign.	Total.		
Scarlatina	16	11	1	..	14	..	14	6	8	14	28	4
Diphtheria	9	3	3	1	3	1	4	9	3	12	16	..
Total	25	14	4	1	17	1	18	15	11	26	44	4

Admissions.

Scarlatina	83	76	22	3	61	13	74	87	23	110	184	18
Diphtheria	141	57	79	18	79	40	119	100	76	176	295	65
Cholera suspects	12	1	..	..	2	5	7	..	6	6	13	1
Total	236	134	101	21	142	58	200	187	105	292	492	75

Discharges.

Scarlatina	62	63	15	3	53	13	63	62	28	90	153	20
Diphtheria	93	46	63	16	47	30	77	73	68	141	218	56
Cholera suspects	12	1	..	..	2	5	7	..	6	6	13	1
Total	177	110	78	19	99	48	147	135	102	237	384	77

Deaths.

Scarlatina	20	8	6	..	17	..	17	16	1	17	34	..
Diphtheria	47	13	17	2	31	7	38	31	10	41	79	..
Total	67	21	23	2	48	7	55	47	11	58	113	..

Remaining in Hospital, December 31, 1892.

Scarlatina	17	6	2	..	8	..	8	15	2	17	25	2
Diphtheria	10	1	2	1	4	4	8	5	1	6	14	..
Total	27	7	4	1	12	4	16	20	3	23	39	2

Recapitulation of Report for the Year ending December 31, 1892.

	Remaining in Hospital, December 31, 1891.		Admitted during the Year.		Discharged during the Year.		Died during the Year.		Remaining in Hospital, December 31, 1892.				
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Native.	Foreign.	Total.
Scarlatina	14	14	74	110	63	90	17	17	8	17	23	2	25
Diphtheria	4	12	119	176	77	141	38	41	8	6	9	5	14
Cholera suspects	..	..	7	6	7	6	..	..	..	..	..	..	..
Total	18	26	200	292	147	237	55	58	16	23	32	7	39

Scarlatina.

	Remaining in Hospital December 31, 1891.			Admitted during the Year.			Discharged during the Year.			Died during the Year.			Remaining in Hospital December 31, 1892.			Mortality per cent.
	Native.	Foreign.	Total.	Native.	Foreign.	Total.	Native.	Foreign.	Total.	Native.	Foreign.	Total.	Native.	Foreign.	Total.	
Under 5 years	11	..	11	76	7	83	51	7	58	28	..	28	8	..	8	28.73
5 and under 16 years	9	4	13	68	21	89	53	23	81	5	1	6	14	1	15	5.88
16 years to 21 years	..	3	3	3	3	6	2	5	7	..	..	..	1	1	2	....
Over 21 years	..	1	1	1	5	6	1	6	7	..	..	..	..	..	..	....
Total	20	8	28	148	36	184	112	41	153	33	1	34	23	2	25	16

Diphtheria.

	Remaining in Hospital December 31, 1891.			Admitted during the Year.			Discharged during the Year.			Died during the Year.			Remaining in Hospital December 31, 1892.			Mortality per cent.
	Native.	Foreign.	Total.	Native.	Foreign.	Total.	Native.	Foreign.	Total.	Native.	Foreign.	Total.	Native.	Foreign.	Total.	
Under 5 years	2	..	2	109	17	126	55	9	64	50	7	57	6	1	7	44.55
5 and under 16 years	8	1	9	45	23	68	44	22	66	7	2	9	2	..	2	11.7
16 years to 21 years	1	1	2	15	36	51	13	33	46	3	3	6	..	1	1	11.32
Over 21 years	1	2	3	10	40	50	8	34	42	2	5	7	1	3	4	13.4
Total	12	4	16	179	116	295	120	98	218	62	17	79	9	5	14	25.4

CHOLERA SUSPECTS.

	Remaining in Hospital December 31, 1891.			Admitted During the Year.			Discharged During the Year.			Died During the Year.			Remaining in Hospital December 31, 1892.			Mortality per cent.
	Native.	Foreign.	Total.	Native.	Foreign.	Total.	Native.	Foreign.	Total.	Native.	Foreign.	Total.	Native.	Foreign.	Total.	
Under 5 years	..	..	..	1	..	1	1	..	1	..	..	..	..	..	..	....
5 and under 16 years	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
16 years to 21 years	..	..	..	1	4	5	1	4	5	..	..	..	..	..	..	....
Over 21 years	..	..	..	..	7	7	..	7	7	..	..	..	..	..	..	....
Ttal	..	..	..	2	11	13	2	11	13	..	..	..	..	..	..	....

As compared with the year 1891, the preceding tables show a decrease in the number of admissions of scarlatina of 120, and an increase of diphtheria of 6. Number of operations performed for laryngeal stenosis, 44; per cent. of recoveries, 29.54, as against 66 operations in 1891, and 35 per cent. of recoveries; average age of patient operated on, 2⅔ years, as against average age of patients operated on in 1891 of 3 years. Total number of deaths from diphtheria, 79, or 25.4 per cent., of which 31, or 10 per cent., were intubated for laryngeal stenosis. There were 12 deaths from scarlatina within 48 hours after admission and 30 from diphtheria.

RECEPTION HOSPITAL.

General Statement.

1892.	Males.	Females.	Native.	Foreign.	Total.	Mothers, etc.
Remaining in Hospital December 31, 1891	....	....	....	....	....	....
Admitted	844	647	475	1,016	1,491	305
Total	844	647	475	1,016	1,491	305
Discharged	23	16	10	29	39	42
Transferred	812	622	457	977	1,434	263
Died	8	9	8	9	17	....
Total	843	647	475	1,015	1,490	305
Remaining in Hospital December 31, 1892	1	....	....	1	1	....

Remaining in Hospital December 31, 1891, nil.

ADMISSIONS.

	Class.			Males.			Females.			Total Males and Females.	Mothers, etc.
	City.	Public Institutions.	Quarantine.	Native.	Foreign.	Total.	Native.	Foreign.	Total.		
Variola	287	9	27	92	107	199	66	58	124	323	77
Scarlatina	170	81	6	70	71	141	67	49	116	257	19
Scarlatina and measles	5	2	1	4	1	5	2	1	3	8	1
Scarlatina and pertussis	1	2	..	..	..	..	2	1	3	3	..
Scarlatina and varicella	..	4	..	2	..	2	2	..	2	4	..
Measles	133	72	362	59	231	290	54	223	277	567	154
Measles and diphtheria	8	..	6	5	4	9	1	4	5	14	7
Measles and croup	6	..	..	1	1	2	1	3	4	6	2
Pertussis	1	..	..	1	..	1	..	..	..	1	..
Pertussis and diphtheria	1	..	..	1	..	1	..	..	..	1	1
Diphtheria	1	..	..	1	..	1	..	..	..	1	..
Typhus fever	140	13	12	11	88	99	2	64	66	165	27
Scabies	1	..	2	..	..	..	..	3	3	3	..
Leprosy	2	..	..	..	2	2	..	..	..	2	..
Observation	90	24	22	21	71	92	10	34	44	136	17
Total	846	207	438	268	576	843	207	440	647	1,491	305

DISCHARGES.

Variola	..	..	..	..	..	..	..	..	..	..	2
Varicella	1	1	..	1	1	2	..	..	..	2	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	4
Measles	2	..	1	..	..	..	1	2	3	3	24
Diphtheria and pertussis	1	..	..	1	..	1	..	..	..	1	1
Typhoid fever	..	1	..	..	..	..	1	..	1	1	..
Scabies	..	..	2	..	..	..	..	2	2	2	..
Observation	..	..	..	..	..	..	..	..	..	..	8
Observation, no case	13	8	9	3	17	20	3	7	10	30	3
Total	17	10	12	5	18	23	5	11	16	39	42

TRANSFERRED TO NORTH BROTHER ISLAND.

	Class.			Males.			Females.			Total Males and Females.	Mothers, etc.
	City.	Public Institutions.	Quarantine.	Native.	Foreign.	Total.	Native.	Foreign.	Total.		
Variola	283	9	27	91	107	198	66	55	121	319	75
Scarlatina *	167	81	6	68	71	139	67	48	115	254	15
Scarlatina and measles	5	2	1	4	1	5	2	1	3	8	1
Scarlatina and pertussis	1	2	..	..	..	..	2	1	3	3	..
Scarlatina and varicella	..	4	..	2	..	2	2	..	2	4	..
Measles	130	71	360	58	230	288	52	221	273	561	130
Measles and diphtheria	7	..	6	4	4	8	1	4	5	13	7
Measles and croup	5	..	..	1	1	2	1	2	3	5	2
Pertussis	1	..	..	1	..	1	..	..	..	1	..
Diphtheria	1	..	..	1	..	1	..	..	..	1	..
Typhus fever	140	13	12	11	88	99	2	64	66	165	27
Scabies	1	..	..	..	..	..	..	1	1	1	..
Leprosy	2	..	..	..	2	2	..	..	..	2	..
Observation	7†	..	..	2	3	5	..	2	2	7	1
Observation.											
Typhus fever	46	10	5	7	36	43	1	17	18	61	..
Scarlatina	8	1	3	3	5	8	1	3	4	12	..
Scarlatina and measles	1	1	..	1	..	1	1	..	1	2	..
Measles	2	..	4	..	4	4	1	1	2	6	5
Measles and diphtheria	2	..	..	..	..	..	1	1	2	2	..
Measles and croup	1	..	..	1	..	1	..	..	..	1	..
Variola	4	..	..	1	2	3	..	1	1	4	..
Diphtheria †	2	..	..	1	1	2	..	..	..	2	..
Total	816	194	424	257	555	812	200	422	622	1,434	263

* 2 cases scarlatina, viz., 1 Public Institution, native, female, and 1 City, foreign, female, to Willard Parker Hospital.

† To Willard Parker Hospital.

DEATHS.

Variola	4	..	..	1	..	1	..	3	3	4	..
Scarlatina	3	..	..	2	..	2	..	1	1	3	..
Measles	1	1	1	1	1	2	1	..	1	3	..
Measles and croup	1	..	..	..	..	..	..	1	1	1	..

	Class.			Males.			Females.			Total Males and Females.	Mothers, etc.
	City.	Public Institutions.	Quarantine.	Native.	Foreign.	Total.	Native.	Foreign.	Total.		
Measles and diphtheria	1	..	..	1	..	1	..	..	..	1	..
Typhoid fever	..	1	..	..	..	..	..	1	1	1	..
Pneumonia	1	..	..	1	..	1	..	..	..	1	..
Acute articular rheumatism	1	..	..	..	..	..	1	..	1	1	..
Ulcerative endocarditis	..	..	1	..	..	..	..	1	1	1	..
Cholera Asiatica	1	..	..	..	1	1	..	..	..	1	..
Total	13	2	2	6	2	8	2	7	9	17	..

Dead bodies received during the year, 159.

Remaining in Hospital December 31, 1892.

Observation	..	1	..	..	1	1	..	..	..	1	..

Recapitulation of Report for Year ending December 31, 1892.

	Remaining in Hospital December 31, 1891.		Admitted during the Year.		Discharged during the Year.		Transferred during the Year		Died during the Year.		Remaining in Hospital December 31, 1892.					
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Native.	Foreign.	Total.	Mothers, etc.
Variola	..	..	199	124	..	..	198	121	1	3	..	..	..	..	..	..
Scarlatina	..	..	141	116	..	..	139	115	2	1	..	..	..	..	..	..
Scarlatina and measles	..	..	5	3	..	..	5	3	..	..	..	..	..	..	..	..
Scarlatina and pertussis	..	..	..	3	..	..	..	3	..	..	..	..	..	..	..	..
Scarlatina and varicella	..	..	2	2	..	..	2	2	..	..	..	..	..	..	..	..
Measles	..	..	290	277	..	3	288	273	2	1	..	..	..	..	..	..
Measles and diphtheria	..	..	9	5	..	..	8	5	1	..	..	..	..	..	..	..
Measles and croup	..	..	2	4	..	..	2	3	..	1	..	..	..	..	..	..
Pertussis	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
Pertussis and diphtheria	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
Typhus fever	..	..	99	66	..	..	99	66	..	..	..	..	..	..	..	..
Scabies	..	..	..	3	..	2	..	1	..	..	..	..	..	..	..	..
Leprosy	..	..	2	..	..	..	2	..	..	..	..	..	..	..	..	..
Observation	..	..	92	44	..	..	5	2	..	..	1	..	..	1	1	..

	Remaining in Hospital December 31, 1891.		Admitted during the Year.		Discharged during the Year.		Transferred during the Year.		Died during the Year.		Remaining in Hospital December 31, 1892.					
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Native.	Foreign.	Total.	Mothers, etc.
Observation.																
Typhus fever	..	..	..	..	..	..	43	18	..	..	..	..	..	..	..	..
Scarlatina	..	..	..	..	..	..	8	4	..	..	..	..	..	..	..	..
Scarlatina and measles	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	4	2	..	..	..	..	..	..	..	..
Measles and diphtheria	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
Measles and croup	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Variola	..	..	..	..	..	..	3	1	..	..	..	..	..	..	..	..
Varicella	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Typhoid fever	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..
Pneumonia	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Acute articular rheumatism	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Ulcerative endocarditis	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Cholera Asiatica	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
No case	..	..	..	..	20	10	..	..	..	..	..	..	..	..	..	..
Total	..	..	844	647	23	16	812	622	8	9	1	..	..	1	1	..

Respectfully submitted,

F. W. LESTER, Resident Physician.

New York, December 31, 1892.

To the Board of Health, City of New York:

Gentlemen—I have the honor to transmit herewith the annual report of Riverside Hospital for 1892:

The great increase in the census over that of previous years is a marked feature. On December 31, 1891, there remained in the hospital 31 cases, during the year there were 1,582 patients admitted, making a total of 1,613 patients treated. 280 persons admitted as accompanying various patients bring this number up to 1,893. During the first part of the year 175 persons, passengers from steamship "Massillia," were quarantined at this hospital on account of exposure to typhus fever. No regular record having been made of these, they do not appear in the body of the report.

The entire number of persons accommodated during the year thus reaches 1,968.

With the close of the year, we have remaining 34 patients and 6 persons accompanying.

Very respectfully,

G. L. NICHOLAS, Resident Physician.

	Remaining Jan. 1, 1892.		Jan.		Feb.		March.		April.		May.		June.		July.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Small-pox	..	..	10	3	22	7	11	2	33	33	17	15	22	19	17	7
Typhus fever	..	..	..	..	79	59	32	19	11	2	4	3	9	1	1	4
Measles	4	3	11	18	25	9	47	40	61	49	66	51	58	67	38	31
Scarlet fever	2	8	18	11	19	12	34	28	23	26	20	22	11	7	8	2
Scarlet fever and measles	8	6	2	3	4	2	7	4	..	3	4	2	14	20	6	4
Scarlet fever and whooping-cough	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Scarlet fever and chicken-pox	..	..	2	..	..	..	..	1	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leprosy	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..
Total by sexes	14	17	44	50	164	123	134	111	129	160	112	123	115	153	72	78
Total	31		94		287		245		289		235		268		150	

	Aug.		Sept.		Oct.		Nov.		Dec.		Total Admitted.		Total Treated.		Remaining Dec. 31, 1892	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Small-pox	23	16	18	9	22	16	14	7	6	2	215	136	215	136	3	2
Typhus fever	..	..	..	..	..	..	..	..	16	2	152	90	152	90	10	2
Measles	7	6	2	5	..	..	1	..	5	8	321	284	325	287	2	4
Scarlet fever	5	6	7	7	1	3	4	5	5	1	155	130	157	138	6	3
Scarlet fever and measles	..	1	..	..	..	..	2	1	..	..	39	40	47	46	..	1
Scarlet fever and whooping-cough	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..
Scarlet fever and chicken-pox	..	..	..	..	..	..	..	..	..	..	2	1	2	1	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..
Diphtheria	..	..	8	2	1	2	..	..	..	..	9	4	9	4	..	..
Leprosy	..	..	..	..	..	..	..	..	..	..	2	..	2	..	1	..
Total by sexes	38	33	35	36	24	29	24	19	32	21	896	686	910	703	22	12
Total	71		71		53		43		53		1,582		1,613		34	

SMALL-POX.

	City.	Quarantine.	Public Hospitals.	Other Places.	Male.	Female.	White.	Colored.	Native.	Foreign.	Total.
Remaining January 1, 1892	..	..	..	..	..	..	..	..	..	..	..
Admitted	287	31	25	8	215	136	333	18	175	176	351
Total treated	287	31	25	8	215	136	333	18	175	176	351
Died	54	4	6	1	44	21	61	4	42	23	65
Discharged	228	27	19	7	168	113	267	14	129	252	281
Remaining December 31, 1892	5	..	..	..	3	2	5	..	4	1	5

Mortality, $18\frac{11}{100}$ per cent.

TYPHUS FEVER.

Remaining January 1, 1892	..	..	..	..	..	..	..	..	..	..	..
Admitted	185	6	41	10	152	90	242	..	23	219	242
Total treated	185	6	41	10	152	90	242	..	23	219	242
Died	25	1	17	1	35	9	44	..	9	35	44
Discharged	157	5	16	8	107	79	186	..	10	176	186
Remaining December 31, 1892	3	..	8	1	10	2	12	..	4	8	12

Mortality, $18\frac{18}{100}$ per cent.

MEASLES.

Remaining January 1, 1892	4	..	1	2	4	3	7	..	3	4	7
Admitted	136	289	75	105	321	284	598	7	134	471	605
Total treated	140	289	76	107	325	287	605	7	137	475	612
Died	25	51	12	11	52	47	99	..	35	64	99
Discharged	112	238	62	95	271	236	500	7	100	407	507
Remaining December 31, 1892	3	..	2	1	2	4	6	..	2	4	6

Mortality, $16\frac{1}{100}$ per cent.

Scarlet Fever.

	City.	Quarantine.	Public Hospitals.	Other Places.	Male.	Female.	White.	Colored.	Native.	Foreign.	Total.
Remaining January 1, 1892	2	..	7	1	2	8	10	..	6	4	10
Admitted	162	10	77	36	155	130	284	1	148	137	285
Total treated	164	10	84	37	157	138	294	1	154	141	295
Died	31	3	13	1	21	27	48	..	31	17	48
Discharged	128	7	70	33	130	108	238	..	121	117	138
Remaining December 31, 1892	5	..	1	3	6	3	8	1	2	7	9

Mortality, $16\frac{47}{100}$ per cent.

Scarlet Fever, with Measles.

Remaining January 1, 1892	7	..	5	2	8	6	14	..	7	7	14
Admitted	26	29	9	15	39	40	78	1	45	34	79
Total treated	33	29	14	17	47	46	92	1	52	41	93
Died	8	15	3	6	13	19	32	..	13	19	32
Discharged	25	14	11	10	34	26	59	1	38	22	60
Remaining December 31, 1892	..	..	..	1	..	1	1	..	1	..	1

Mortality, $34\frac{41}{100}$ per cent.

Scarlet Fever with Whooping-cough.

Remaining January 1, 1892	..	..	..	..	..	..	..	..	..	..	..
Admitted	1	..	..	..	..	1	1	..	1	..	1
Total treated	1	..	..	..	..	1	1	..	1	..	1
Died	..	..	..	..	..	..	..	..	..	..	..
Discharged	1	..	..	..	..	1	1	..	1	..	1
Remaining December 31, 1892	..	..	..	..	..	..	..	..	..	..	..

Mortality, 0 per cent.

Scarlet Fever with Chicken-pox.

	City.	Quarantine.	Public Hospitals.	Other Places.	Male.	Female.	White.	Colored.	Native.	Foreign.	Total.
Remaining January 1, 1892	..	..	..	..	..	..	..	..	..	..	..
Admitted	1	..	2	..	2	1	3	..	3	..	3
Total treated	1	..	2	..	2	1	3	..	3	..	3
Died	..	..	..	..	..	..	..	..	..	..	..
Discharged	1	..	2	..	2	1	3	..	3	..	3
Remaining December 31, 1892	..	..	..	..	..	..	..	..	..	..	..

Mortality, 0 per cent.

Whooping-cough.

Remaining January 1, 1892	..	..	..	..	..	..	..	..	..	..	..
Admitted	1	..	..	..	1	..	1	..	1	..	1
Total treated	1	..	..	..	1	..	1	..	1	..	1
Died	..	..	..	..	..	..	..	..	..	..	..
Discharged	1	..	..	..	1	..	1	..	1	..	1
Remaining December 31, 1892	..	..	..	..	..	..	..	..	..	..	..

Mortality, 0 per cent.

Diphtheria.

Remaining January 1, 1892	..	..	..	..	..	..	..	..	..	..	..
Admitted	5	..	6	2	9	4	13	..	11	2	13
Total treated	5	..	6	2	9	4	13	..	11	2	13
Died	1	..	..	..	..	1	1	..	1	..	1
Discharged	4	..	6	2	9	3	12	..	10	2	12
Remaining December 31, 1892	..	..	..	..	..	..	..	..	..	..	..

Mortality, $7\frac{88}{100}$ per cent.

Leprosy.

	City.	Quarantine.	Public Hospitals.	Other Places.	Male.	Female.	White.	Colored.	Native.	Foreign.	Total.
Remaining January 1, 1892	..	..	..	..	..	..	..	..	..	..	..
Admitted	2	..	..	..	2	..	..	2	..	2	2
Total treated	2	..	..	..	2	..	..	2	..	2	2
Died	1	..	..	..	1	..	..	1	..	1	1
Discharged	..	..	..	..	..	..	..	..	..	..	..
Remaining December 31, 1892	1	..	..	..	1	..	..	1	..	1	1

Mortality, 50 per cent.

Total Cases.

Remaining January 1, 1892	13	...	13	5	14	17	31	..	16	15	31
Admitted	806	365	235	176	896	686	1,553	29	541	1,041	1,582
Total treated	819	365	248	181	910	703	1,584	29	557	1,056	1,613
Died	145	74	51	20	166	124	285	5	131	159	290
Discharged	657	291	186	155	722	567	1,267	22	413	876	1,289
Remaining December 31, 1892	17	...	11	6	22	12	32	2	13	21	34

Mortality, $17\frac{97}{100}$ per cent.

Accompanying.

Remaining January 1, 1892	1	...	1	1	..	3	3	..	1	2	3
Admitted	126	115	5	31	27	250	277	..	32	245	277
Total treated	127	115	6	32	27	253	280	..	33	247	280
Died	3	1	..	..	2	2	4	..	2	2	4
Discharged	121	112	6	31	25	245	270	..	30	240	270
Remaining December 31, 1892	3	2	..	1	..	6	6	..	1	5	6

Mortality, $1\frac{44}{100}$ per cent.

Table Showing Cases Treated for the

Diseases.	Remaining January 1, 1892.		Jan.		Feb.		March.		April.		May.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Small-pox	..	..	..	..	..	..	..	..	1	..	2	2
Typhus fever	..	..	..	..	5	3	..	..	..	..	..	..
Measles	..	..	4	3	14	6	16	26	37	36	36	39
Scarlet fever	..	..	..	..	..	..	2	1	..	..	2	3
Scarlet fever and measles	..	..	..	1	..	..	..	..	1	2	..	..
Accompanying	..	..	..	2	..	9	1	7	..	27	..	22
Total by sexes	..	..	4	6	19	18	19	34	39	65	40	66
Total	..		10		37		53		104		106	

Table Showing Number of Deaths

Diseases.	Simple.	Confluent.	Hemorrhagic.	Complications.				
				Acute Meningitis, Otitis.	Cancrum Oris.	Croupous Laryngitis.	Gangrenous Tonsilitis.	Bronchitis, Acute.
Small-pox	39	4	11	1	..	..	..	..
Typhus fever	31	..	..	..	1	..	..	1
Measles	12	..	..	2	2	9	..	18
Scarlet fever	8	..	..	..	..	2	1	1
Scarlet fever and measles	8	..	..	..	2	2	..	1
Diphtheria	1	..	..	..	..	..	..	..
Leprosy	..	..	..	..	..	..	..	..
Total	99	4	11	3	5	13	1	21

United States Immigration Service, 1892.

June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.		Total Treated.		Died.		Remaining December 31, 1892.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	6	1	..	..	..	..	..	..	..	2	..	..	..	10	8	1	2	..	..
2	..	..	4	..	..	..	..	..	..	..	..	..	..	7	7	1	..	..	..
39	40	27	17	3	..	1	2	..	..	..	..	..	1	177	170	34	36	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	6	4	2	2	..	..
1	..	..	1	..	..	..	..	..	..	..	..	..	..	2	4	1	1	..	..
1	27	1	24	..	1	..	2	..	..	2	1	..	2	5	124	1	1	..	2
49	73	29	46	3	1	1	4	..	..	4	1	..	3	207	317	40	42	..	2
122		75		4		5		..		5		3		524		82		2	

from Various Causes, Year 1892.

Complications.																								
Broncho-Pneumonia.	Pneumonia.	Phthisis Pulmonalis.	Œdema of Lungs.	Empyema.	Gastritis.	Gastro-enteritis.	Enteritis.	Peritonitis.	Nephritis, Acute.	Scarlet Fever.	Diphtheria.	Tuberculosis (General).	Pyæmia.	Erysipelas.	Whooping-cough.	Pernicious Anæmia.	Alcoholism.	Marasmus.	Miscarriage.	Adenitis.	Gangrene of Face.	Cellulitis.	Total.
2	..	..	1	..	..	..	1	..	1	3	..	..	1	..	..	..	1	..	..	..	..	..	65
1	2	1	..	..	..	..	2	..	..	..	..	1	..	..	..	..	..	1	2	..	1	..	44
26	2	..	..	..	..	3	5	..	..	..	15	..	1	..	..	1	..	1	..	..	..	2	99
..	..	..	..	1	1	..	1	..	2	..	20	..	..	1	1	1	..	2	..	5	..	1	48
5	..	..	..	..	..	1	2	2	1	..	6	..	..	..	..	..	..	..	..	2	..	..	32
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
34	4	1	1	1	1	4	12	2	4	3	41	1	2	1	1	2	1	4	2	7	1	3	290

Table Showing Ratio of Mortality at Various Ages during Year 1892.

Diseases.	Sexes.	Ages.														
		Under 1 month.					Under 1 year.					Under 2 years.				
		Total treated.	Discharged.	Died.	Remaining.	Mortality.	Total treated.	Discharged.	Died.	Remaining.	Mortality.	Total treated.	Discharged.	Died.	Remaining.	Mortality.
Small-pox	Male	2	1	1	..	.50	20	10	9	1	.45	14	9	5	..	.35+
	Female	1	1	..	..	..	12	7	5	..	.42—	12	8	3	1	.25
Typhus fever	Male	1	..	1	..	1.00	1	1	..	..	..	1	1	..	..	..
	Female	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1.00
Measles	Male	1	1	..	..	..	50	33	17	..	.34	59	42	17	..	.28+
	Female	..	..	..	..	..	42	29	13	..	.21—	52	35	16	1	.45+
Scarlet fever	Male	1	..	1	..	1.00	2	1	1	..	.50	15	10	5	..	.33
	Female	1	..	1	..	1.00	5	2	3	..	.60	12	7	5	..	.42—
Scarlet fever, with measles	Male	..	..	..	..	..	9	6	3	..	.33+	11	8	3	..	.27+
	Female	..	..	..	..	..	9	5	4	..	.44+	10	5	5	..	.50
Scarlet fever, with whooping-cough	Male	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Female	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..
Scarlet fever, with chicken-pox	Male	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Female	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	Male	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..
	Female	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	Male	..	..	..	..	..	..	..	..	..	..	2	2	..	..	..
	Female	..	..	..	..	..	..	..	..	..	..	3	2	1	..	.33+
Leprosy	Male	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Female	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
By sexes	Male	5	2	3	..	.60	82	51	30	1	.37—	103	73	30	..	.29+
	Female	2	1	1	..	.50	68	43	25	..	.37—	91	58	31	2	.34+
Total		7	3	4	..	.58+	150	94	55	1	.37—	194	131	61	2	.31+

Table Showing Ratio of Mortality at Various Ages during Year 1892—(Continued).

Diseases.	Sexes.	Ages.														
		Under 5 years.					5 to 15 years.					15 to 25 years.				
		Total treated.	Discharged.	Died.	Remaining.	Mortality.	Total treated.	Discharged.	Died.	Remaining.	Mortality.	Total treated.	Discharged.	Died.	Remaining.	Mortality.
Small-pox	Male	26	16	8	2	.30+	10	9	1	..	.10	55	49	6	..	.11
	Female	14	10	4	..	.29—	5	5	..	..	..	40	35	4	1	.10
Typhus fever	Male	7	6	1	..	.14+	31	30	1	..	.03+	47	42	4	1	.08+
	Female	7	5	1	1	.14+	23	23	..	..	..	33	31	2	..	.06+
Measles	Male	104	91	13	..	.13—	53	49	4	..	.08—	44	42	1	1	.02+
	Female	90	76	14	..	.16—	47	43	3	1	.06+	38	36	..	2	..
Scarlet fever	Male	38	32	6	..	.16—	38	34	3	1	.08—	52	43	4	5	.08—
	Female	37	26	9	2	.24+	29	23	1	..	.03+	44	37	6	1	.14—
Scarlet fever with measles	Male	22	17	5	..	.23—	5	3	2	..	.40	..	..	..	..	..
	Female	21	13	8	..	.38+	4	2	1	1	.25	2	1	1	..	.50
Scarlet fever with whooping-cough	Male	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Female	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlet fever with chicken-pox	Male	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..
	Female	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	Male	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Female	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	Male	2	2	..	..	..	5	5	..	..	..	..	..	..	..	..
	Female	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Leprosy	Male	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Female	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
By sexes	Male	201	166	33	2	.16+	142	130	11	1	.08—	198	176	15	7	.08—
	Female	171	132	36	3	.21+	108	101	5	2	.05—	157	140	13	4	.08—
Total		372	298	69	5	.19—	250	231	16	3	.06+	355	316	28	11	.08—

Table Showing Ratio of Mortality at Various Ages during Year 1892—(Continued).

Diseases.	Sexes.	Ages.														
		25 to 45 years.					45 to 65 years.					65 years and over.				
		Total treated.	Discharged.	Died.	Remaining.	Mortality.	Total treated.	Discharged.	Died.	Remaining.	Mortality.	Total treated.	Discharged.	Died.	Remaining.	Mortality.
Small-pox	Male....	74	65	9	..	.12—	13	9	4	..	.31—	1	..	1	..	1.00
	Female..	46	42	4	..	.09—	6	5	1	..	.17—	..	..	..	..	..
Typhus fever	Male....	56	23	25	8	.45—	8	4	3	1	.38—	..	..	..	..	..
	Female..	21	17	4	..	.19—	4	3	1	..	.25—	1	..	..	1	..
Measles	Male....	15	14	..	1	..	..	..	..	..	..	..	..	..	..	..
	Female..	18	17	1	..	.06—	..	..	..	..	..	..	..	..	..	..
Scarlet fever	Male....	11	10	1	..	.09—	..	..	..	..	..	..	..	..	..	..
	Female..	10	8	2	..	.20	..	..	..	..	..	..	..	..	..	..
Scarlet fever with measles	Male....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Female..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlet fever with whooping-cough	Male....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Female..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlet fever with chicken-pox	Male....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Female..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	Male....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Female..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	Male....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Female..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leprosy	Male....	2	..	1	1	.50	..	..	..	..	..	..	..	..	..	..
	Female..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
By sexes	Male....	158	112	38	10	.24—	21	13	7	1	.33+	1	..	1	..	1.00
	Female..	95	84	9	..	.09—	10	8	2	..	.20	1	..	..	1	..
Total	.....	253	196	47	10	.19—	31	21	9	1	.29+	2	..	1	1	.50

Recapitulation.

	Remaining January 1, 1892.		Admitted.		Total Treated.		Died.		Discharged.		Remaining December 31, 1892.		Mortality.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Small-pox	..	..	215	136	215	136	44	21	168	113	3	2	.18+
Typhus fever	..	..	152	90	152	90	35	9	107	79	10	2	.18+
Measles	4	3	321	284	325	287	52	47	271	236	2	4	.16+
Scarlet fever	2	8	155	130	157	138	21	27	130	108	6	3	.16+
Scarlet fever with measles	8	6	39	40	47	46	13	19	34	26	..	1	.34+
Scarlet fever with whooping-cough	..	..	..	1	..	1	..	..	..	1	..	..	..
Scarlet fever with chicken-pox	..	..	2	1	2	1	..	..	2	1	..	..	..
Whooping-cough	..	..	1	..	1	..	..	..	1	..	..	..	..
Diphtheria	..	..	9	4	9	4	..	1	9	3	..	..	.07+
Leprosy	..	..	2	..	2	..	1	..	..	..	1	..	.50
By sexes	14	17	896	686	910	703	166	124	722	567	22	12	..
Total	31		1,582		1,613		290		1,289		34		.18—

Average daily census for the year:

Patients	101.50
Help	57.47
Total	158.97

Number of trips made by steamer "Franklin Edson," 635.

Total number of dead bodies received during the year, 71.

NEW YORK, August 1, 1893.

CHARLES G. WILSON, *President, Board of Health:*

SIR—I have the honor to submit the annual report of the Bureau of Records for 1892.

There were reported during the year 44,317 deaths, 49,447 births and 16,001 marriages, an increase of 683 deaths, 2,543 births and 237 marriages over the number reported in 1891, and in each case the largest number ever reported in this city in any year.

DEATHS.

The actual number of deaths during the year was 44,329, representing a death-rate of 24.26 in an estimated population of 1,827,396, and an increase of 670 over the number of deaths in 1891. Although this increase is less than might naturally be expected from the increase of population, and the death-rate is consequently lower than last year, it must be borne in mind that 1890 and 1891

were both years of exceptionally high mortality, on account of the epidemic of influenza, and so the mortality for 1892 must also be looked upon as higher than normal, though lower than the average for the ten years previous to the onset of the epidemic, viz.: 1880–1889, inclusive. The death-rate for that period, estimating the population from the number given by the State census of 1892 and the United States census of 1880, was 26.03 (average population, 1,418,985, and average annual deaths, 36,935), and the same rate in 1892 would have given us 47,567 deaths. Even when the population is estimated from the United States census of 1890, making the average from 1880 to 1889 only 1,342,088, and the death-rate 27.52, the deaths for 1892 (population, 1,589,033) would be 43,730, only 600 less than the actual number. But it must be remembered, as against this showing, that the death-rate for several years has been steadily diminishing, and, therefore, the mortality would reasonably be expected to be much less than it was unless some special cause or causes tended to raise it. This efficient cause is found chiefly in the persistently lingering influenza, (which cannot be said really to have disappeared until late in the year, although there has been no very pronounced epidemic of it since April, 1891), and also in the unusually protracted season of high temperature in the month of July.

In order to fix definitely upon the cause of the increased mortality over 1891, the following table has been prepared, in which a comparison is made of the deaths by classes of disease in 1891 and 1892:

	1891.	1892.	Increase.	Decrease.
Miasmatic	5,037	4,915	....	122
Diarrhœal	3,587	3,602	15	....
Malarial	185	161	....	24
Zoögenous	1	3	2	....
Venereal	105	112	7	....
Septic	425	488	63	....
Other zymotic	3	1	....	2
Parasitic	25	13	....	12
Dietetic	290	371	81	....
Constitutional	7,404	7,443	39	....
Developmental	1,831	1,814	13	....
Nervous	3,342	3,655	313	....
Eye and ear	63	62	....	1
Circulatory	2,454	2,507	53	....
Respiratory	9,283	9,242	....	41
Digestive	2,741	3,020	279	....
Lymphatic	20	20	....	....
Urinary	2,696	2,543	....	153
Generative	188	194	6	....
Puerperal	171	140	....	31

	1891.	1892.	Increase.	Decrease.
Locomotory	108	108	....	....
Integumentary	128	94	....	34
Accidents	1,597	1,900	303	....
Homicide	56	38	....	18
Suicide	300	241	....	59
Ill-defined	1,649	1,642	....	7
Total	43,659	44,329	1,174	504
Balance	670		670	

It will be seen that the increase can be chiefly located among diseases of the nervous system, diseases of the digestive organs, and accidental deaths, in which there was an increase of 895 deaths in 1892 over 1891, almost equally distributed to each of the three causes.

In order to locate the cause or causes still more precisely, the following tables are given, showing the deaths from these three classes in more detail for 1891 and 1892:

Diseases of the Nervous System.

	1891.	1892.	Increase.	Decrease.
Meningitis	932	1,020	88	..
Apoplexy	960	1,194	234	..
Softening of brain	75	66	..	9
Hemiplegia	176	167	..	9
Insanity, paresis	219	234	15	..
Epilepsy	105	110	5	..
Convulsions	494	511	17	..
Congestion of brain	113	111	..	2
Paraplegia, myelitis	65	75	10	..
Other causes	203	167	..	36
Total	3,342	3,655	369	56

It will be observed that the two causes of death chiefly responsible for the increase of deaths from diseases of the nervous system, were meningitis and apoplexy, which together account for an increase of 322 deaths over 1891.

In the next table, diseases of the digestive organs are given in similar detail :

Deaths from Diseases of the Digestive Organs, 1891 *and* 1892.

	1891.	1892.	Increase.	Decrease.
Dentition	151	155	4	..
Gastritis	217	225	8	..
Gastro-enteritis	752	897	145	..
Enteritis	190	231	41	..
Chronic dysentery	100	94	..	6
Ulcer of stomach	49	74	25	..
Intestinal obstruction	90	117	27	..
Typhlitis, etc.	83	129	46	..
Hernia	108	84	..	24
Peritonitis	251	257	6	..
Hepatitis	92	71	..	21
Cirrhosis	333	359	26	..
Other diseases	325	327	2	..
Total	2,741	3,020	330	51

In this table the increase is more evenly distributed than in the other, but the main increase, after all, was in gastro-enteritis, enteritis and typhlitis, etc., which account for 232 of the total increase of 279, or if gastritis is added, as it should be, as an allied acute disease, subject to variation from temporary causes, we have a total of 240 accounted for.

In the following table accidental deaths are treated in the same way :

Deaths from Accident and Negligence, 1891 *and* 1892.

Cause of Death.	1891.	1892.	Increase.	Decrease.
Fractures and contusions	740	835	95	..
Wounds	55	56	1	..
Burns, scalds	172	179	7	..
Poison	51	56	5	..
Drowning	193	187	....	6
Suffocation	136	99	....	37
Sunstroke	95	320	225	..
Surgical operations	133	151	18	..
Others	22	17	....	5
Total	1,597	1,900	351	48

This table shows clearly that the increase was mainly due to fractures and contusions and sunstroke, which together give an increase of 320 deaths for 1892, the greater part of this increase being due to sunstroke.

So far as this analysis has now gone, the increase of deaths in 1892 over 1891 would seem to have been due to the unusual meteorological conditions prevalent in July, the diseases being such as are generally associated with a high temperature. In order to determine the effect of season, the following table was prepared:

Deaths from Certain Causes by Months for 1891 *and* 1892.

Month.	Meningitis.		Apoplexy.		Diseases of Digestive Organs.		Fractures and Contusions.		Sunstrokes.	
	1891.	1892.	1891.	1892.	1891.	1892.	1891.	1892.	1891.	1892.
January	65	67	77	89	60	62	50	55	..	..
February	68	78	71	92	50	68	45	63	..	..
March	103	99	81	124	57	81	44	45	..	..
April	108	91	75	102	74	79	59	54	..	..
May	72	113	76	96	66	77	57	94	..	..
June	98	88	79	87	145	123	78	55	35	29
July	86	127	70	121	246	407	64	78	5	252
August	68	92	87	74	161	190	71	91	51	39
September	77	74	77	81	145	171	95	90	4	..
October	67	74	75	97	123	100	60	90	..	..
November	52	50	98	114	59	68	62	60	..	..
December	68	67	94	117	56	56	55	60	..	..
Total	932	1,020	960	1,194	1,242	1,492	740	835	95	320

The following table gives the increase or decrease in the deaths from these causes in 1892 as compared with 1891, and also the total increase or decrease by months:

Month.	Meningitis.	Apoplexy.	Digestion.	Fracture and Contusion.	Sunstroke.	Total.
January	+ 2	+12	+ 2	+ 5	....	+ 21
February	+10	+21	+ 18	+18	....	+ 67
March	− 4	+43	+ 24	+ 1	....	+ 64
April	−17	+27	+ 5	− 5	....	+ 10
May	+41	+20	+ 11	+37	....	+109
June	−10	+ 8	− 22	−23	− 6	− 53
July	+41	+51	+161	+74	+247	+514
August	+24	−13	+ 29	+20	− 12	+ 48
September	− 3	+ 4	+ 26	− 5	− 4	+ 18
October	+ 7	+22	+ 23	+30	....	+ 36
November	− 2	+16	+ 9	− 2	....	+ 21
December	− 1	+23	....	+ 5	....	+ 27
Total	+88	+234	+240	+95	+225	+882

It will be seen that under all of these headings, save one, the increase of mortality was greatest in July, and that when the sum of the increase is taken for each month, the increase for July is very greatly preponderant.

Now in the month of July there was a period of continued high temperature and humidity, such as has not been experienced in this city since the year 1872, and a comparison of these two periods, twenty years apart, will be both interesting and instructive.

Comparison of the Hot Periods of 1872 *and* 1892.

Date.		Temperature.						Humidity.		Deaths.			
		Maximum.		Minimum.		Mean.		Mean.		Daily.		Weekly.	
		1872.	1892.	1872.	1892.	1872.	1892.	1872.	1892.	1872.	1892.	1872.	1892.
June 16.....	July 10.....	80	88	61	67	71	77	75	74	94	147		
" 17.....	" 11.....	83	86	60	70	73	78	70	76	74	127		
" 18.....	" 12.....	83	91	70	70	75	80	69	81	93	260		
" 19.....	" 13.....	85	92	71	73	78	81	63	76	85	191	641	1,336
" 20.....	" 14.....	88	87	72	72	80	78	65	80	93	206		
" 21.....	" 15.....	91	90	73	72	82	80	66	79	94	177		
" 22.....	" 16.....	88	77	68	60	80	71	79	72	108	228		
Average.....		85.4	87.3	67.8	69.1	77	76.9	69.6	76.9	91.6	190.9		
June 23.....	July 17.....	83	76	64	57	77	66	78	69	115	158		
" 24.....	" 18.....	73	82	64	61	68	71	89	67	102	149		
" 25.....	" 19.....	67	80	62	64	65	71	97	87	133	154		
" 26.....	" 20.....	74	83	65	65	69	74	94	73	96	164	769	1,081
" 27.....	" 21.....	78	82	65	59	72	70	97	66	105	138		
" 28.....	" 22.....	88	86	70	65	80	74	79	78	117	151		
" 29.....	" 23.....	90	89	75	66	84	76	85	84	101	167		
Average.....		79	82.6	66.4	62.4	72.6	71.7	88.4	74.9	109.9	154.4		
June 30.....	July 24.....	96	89	77	71	85	80	81	87	149	179		
July 1.....	" 25.....	96	93	77	77	89	82	77	90	184	190		
" 2.....	" 26.....	97	96	76	78	87	84	83	82	210	187		
" 3.....	" 27.....	94	91	72	74	82	82	72	64	302	171	1,569	1,434
" 4.....	" 28.....	95	97	75	75	84	86	70	68	267	198		
" 5.....	" 29.....	89	97	77	77	80	86	77	65	236	223		
" 6.....	" 30.....	87	86	70	75	79	80	64	77	221	286		
Average.....		93.4	92.7	74.8	75.3	83.7	82.9	74 9	76.1	224.1	204.9		

Date.		Temperature.						Humidity.		Deaths.			
		Maximum.		Minimum.		Mean.		Mean.		Daily.		Weekly.	
		1872.	1892.	1872.	1892.	1872.	1892.	1872.	1892.	1872.	1892.	1872.	1892.
July 7.....	July 31.....	87	74	72	67	78	70	70	78	170	302		
" 8.....	Aug. 1.....	83	79	72	66	78	72	75	74	150	212		
" 9.....	" 2.....	84	73	71	67	77	70	83	80	157	159		
" 10.....	" 3.....	87	83	75	67	80	74	87	69	150	125	1,056	1,181
" 11.....	" 4.....	89	88	75	69	82	78	77	64	162	107		
" 12.....	" 5.....	84	81	77	70	79	75	82	83	130	125		
" 13.....	" 6.....	83	85	71	69	76	77	86	63	137	153		
Average.....		85.3	80.4	73.3	67.9	78.6	73.7	80	73	150.9	168.7		
July 14.....	Aug. 7.....	88	84	74	68	81	75	70	65	148	116		
" 15.....	" 8.....	86	87	75	69	80	77	90	77	144	95		
" 16.....	" 9.....	91	95	77	73	80	83	88	72	119	148		
" 17.....	" 10.....	90	89	78	73	84	81	85	75	150	128	918	853
" 18.....	" 11.....	82	93	75	75	77	81	87	74	137	133		
" 19.....	" 12.....	85	83	70	69	78	76	78	78	121	120		
" 20.....	" 13.....	83	76	64	66	76	70	69	65	99	113		
Average.....		86.4	86.7	73.3	70.4	79.4	77.6	81	72.3	131.1	121.9		
Daily average for total five weeks.....		85.9	85.9	71.1	69	78.5	76.7	81	74.6	141.6	168.1	990.6	1,177

It is worthy of remark that these prolonged hot periods, one at the beginning and the other at the end of July, the hot week in 1872 comprising from June 30 to July 6, and in 1892 from July 24 to July 30, were almost exactly alike in their chief characteristics, the number of days when the temperature rose above 90 degrees, the mean, maximum, minimum and mean for the week, and the mean humidity for the week being the same, within a small fraction.

In order to make a fair comparison of these two periods, the table gives the data for two weeks before and two weeks after the week of most intense heat and greatest mortality. It thus appears that during the two weeks preceding the extremely hot week, the temperature was higher in 1892 than in 1872, and although the humidity in the week immediately preceding was much higher in 1872, the temperature was coincidently low, so that it could have produced no special enervating

effect. Thus it would appear that in 1872 the population of the city ought to have been in better physical condition at the beginning of July, after very moderate and agreeable weather, than in 1892, at the end of July, after many days of usual July weather, provided all other conditions were similar. But the fact is that the reported mortality for that week in 1872 was much greater than in 1892, notwithstanding the great increase of population, which was nearly one hundred per cent. This cannot easily be accounted for in any other way than by an improved sanitary condition of the city, and better and more temperate habits on the part of the people. It is not likely that the difference in the proportion of children to the total population is enough to account even partially for the effect noted, for more recent censuses show that proportion to be about the same as when the census of 1870 was taken. Thus, in 1870 the children under 5 were 11.8 per cent. of the total population, and in 1880 they constituted 11.6 per cent.

In 1872 almost every tenement-house had an immense privy-vault in the yard or cellar; many, probably the majority, of the waste-pipes were not trapped; the waste and soil pipes were ventilated in few cases; there was no supervision of the milk supply; the streets were filthy; and the consumption of distilled spirits much more common in hot weather than at present. In 1892 the privy-vaults no longer existed; the waste and soil pipes were all, or with a few trifling exceptions, trapped and ventilated; the milk and food were watched; the streets were so clean as to excite the wonder of the city; and whiskey had largely yielded place to beer, or even milder drinks, in hot weather, even among topers. There is an evidence of this in the diminished number of sunstrokes, which are especially favored by the alcoholic habit. This is shown in the following table, in which are also given, before we pass to another subject, the actual deaths each day of the week, with the sunstrokes, for the two hottest weeks of 1872 and 1892:

Date.		Actual Daily Deaths.		Deaths from Sunstroke.	
1872.	1892.	1872.	1892.	1872.	1892.
June 30	July 24	191	175	7	..
July 1	" 25	247	177	34	2
" 2	" 26	351	199	68	6
" 3	" 27	238	201	43	16
" 4	" 28	227	285	44	50
" 5	" 29	184	350	12	106
" 6	" 30	153	228	4	51
Total		1,591	1,615	212	231

The rapidity with which the heat took effect in 1872 and the slowness with which the people yielded to it in 1892 are very remarkable. To conclude this account, the highest temperature in the sun on July 2, the hottest day of 1872, was 128 degrees; on July 29, the second hottest day of 1892, it was 137 degrees; the deaths of children under 1 year of age for the week in 1872 were 733,

of whom 495 died from diarrhœal diseases, and in 1892 the corresponding number was 563, with 293 from diarrhœal diseases, the progressive decrease in the number of deaths from cholera infantum of late years being, in all probability, due to the abolition of the privy-vault, and the watching of the milk supply. The total deaths from diarrhœal diseases during the month of July in 1872 were 1,966, and in 1892 only 1,635.

In order to show, if possible, still more conclusively that the increased mortality for 1892 was due to the excessive heat of July, the total deaths are given below by months for 1891 and 1892, with the increase or decrease for each month:

Total Deaths.

Month.	1891.	1892.	Increase.	Decrease.
January	3,334	3,908	574	....
February	3,026	3,596	570	....
March	3,854	3,954	100	....
April	5,048	4,059	....	989
May	3,692	3,912	220	....
June	3,562	3,544	....	18
July	4,261	5,544	1,283	....
August	3,648	3,510	....	138
September	3,231	3,127	....	104
October	3,249	3,032	....	217
November	3,020	2,927	....	93
December	3,734	3,216	....	518
Total	43,659	44,329	2,747	2,077
Balance	670		670	

It will be seen that the increase in the early months of the year, when influenza was still prevalent, is more than offset by the decrease in the latter months, after the disappearance of the epidemic, and it is apparent that if it had not been for the excessive mortality in July, greater than in any month on record, the number of deaths for the year would have been less than in 1891.

And this brings us to the consideration of the influenza.

INFLUENZA.

This disease, which had been so fatal in 1890 and 1891, reappeared in December, 1891, continuing through the early part of 1892, and after a period of subsidence, again increasing in April. Neither of these visitations was as severe as those of previous years, but they added materially to the death list. After the last slight recurrence in April, the epidemic gradually declined until by August it seems to have disappeared, although there were traces of it again in November.

The following table of the total number of deaths reported weekly through the year, with the deaths from influenza, will show this clearly :

Week Ending—	Total Deaths.	Deaths from Influenza.	Week Ending—	Total Deaths.	Deaths from Influenza.
Dec. 12, 1891.....	734	3	June 25, 1892.....	815	2
" 19, "	800	7	July 2, "	845	1
" 26, "	889	38	" 9, "	1,032	..
Jan. 2, 1892.....	969	86	" 16, "	1,336	..
" 9, "	972	89	" 23, "	1,081	1
" 16, "	907	69	" 30, "	1,434	..
" 23, "	866	64	Aug. 6, "	1,181	..
" 30, "	862	45	" 13, "	853	.
Feb. 6, "	790	38	" 20, "	789	.
" 13, "	806	24	" 27, "	727	..
" 20, "	908	25	Sept. 3, "	718	..
" 27, "	910	20	" 10, "	731	..
Mar. 5, "	920	18	" 17, "	758	..
" 12, "	919	16	" 24, "	744	..
" 19, "	885	9	Oct. 1, "	689	..
" 26, "	872	7	" 8, "	659	..
April 2, "	874	9	" 15, "	738	..
" 9, "	983	6	" 22, "	665	..
" 16, "	937	9	" 29, "	631	..
" 23, "	899	2	Nov. 5, "	735	3
" 30, "	950	4	" 12, "	620	3
May 7, "	1,002	4	" 19, "	677	4
" 14, "	897	3	" 26, "	673	2
" 21, "	854	4	Dec. 3, "	735	1
" 28, "	845	1	" 10, "	695	2
June 4, "	868	1	" 17, "	727	2
" 11, "	767	..	" 24, "	705	..
" 18, "	863	..	" 31, "	752	1

It is very evident from this table, that the increased mortality in the early months was due to influenza, and the decrease in the later to the virtual disappearance of that disease as an important factor in the mortality. If the few deaths from influenza reported in November and December are looked upon as indicating its recurrence, although it did not appreciably affect the weekly mortality, there have been five visitations of the disease, viz. : in January, 1890, in April, 1891, in January, 1892, in April, 1892, and in November, 1892—the first being the fiercest and most sudden and unexpected, the second the most fatal, and the third the most prolonged.

TYPHUS FEVER.

The year was marked by an epidemic of typhus fever, which had not shown itself in so serious a form since the great epidemic of 1881–2. The history of its outbreak and subsequent development is recounted elsewhere, and it will be sufficient in this place to institute a comparison between the epidemics of 1881 and 1892, as shown by the deaths.

Table of Deaths from Typhus Fever by Weeks in 1881 *and* 1892.

Week Ending—		Deaths.		Week Ending—		Deaths.	
1881.	1892.	1881.	1892.	1881.	1892.	1881.	1892.
Mar. 26.....	Feb. 20.....	3	2	July 2.....	May 28.....	2	..
Apr. 2.....	" 27.....	2	4	" 9.....	June 4.....	9	..
" 9.....	Mar. 5.....	1	2	" 16.....	" 11.....	3	1
" 16.....	" 12.....	20	8	" 23.....	" 18.....	9	2
" 23.....	" 19.....	13	13	" 30.....	" 25.....	9	1
" 30.....	" 26.....	17	..	Aug. 6.....	July 2.....	..	1
May 7.....	Apr. 2.....	6	..	" 13.....	" 9.....	6	..
" 14.....	" 9.....	9	2	" 20.....	" 16.....	4	..
" 21.....	" 16.....	10	..	" 27.....	" 23.....	1	..
" 28.....	" 23.....	7	..	Sept. 3.....	" 30.....	1	..
June 4.....	" 30.....	5	..	" 10.....	Aug. 6.....	1	..
" 11.....	May 7.....	5	4	.....	" 13.....	..	..
" 18.....	" 14.....	7	..				
" 25.....	" 21.....	3	..	Total		153	40

The epidemic of 1881 was followed by a subsequent outbreak in the following February, which could, however, not be directly connected with the one just mentioned, but which lasted until the following July. A similar recurrence took place in December, 1892, apparently entirely unconnected with the epidemic of the first part of the year, and separated from it by a period of eighteen weeks, without a single case.

CHOLERA.

There were 9 deaths during the year from Asiatic cholera, the first, it is believed, since the epidemic of 1866, although deaths have been attributed to cholera (not given as Asiatic cholera or cholera morbus, but simply as cholera) as recently as 1877. It may be that the few cases of cholera reported yearly from 1867 to 1874, inclusive, and then after a lapse of two years, again in 1877, were genuine Asiatic cholera, but they were probably all cholera nostras, for they do not seem in any case to have been centres of infection, although no special attention was paid to them in the way of disinfection. To make sure upon this point, I have looked up the original certificates of death of the two cases reported in 1874, the year after the epidemic in the Mississippi valley, and

found that they were both cases of rather sudden death from vomiting and purging, one in two days and the other in fifty-five hours, were both investigated by the same Coroner, were both in the Twenty-fourth Ward, and one was reported as cholera sporadica. There is no visé or mark of any kind upon either certificate to indicate that the attention of the Sanitary Superintendent was called to it.

The 9 deaths in 1892 apparently represent 8 entirely independent sources of infection, a noticeable fact in the first cases of almost every epidemic of Asiatic cholera, and in none of these instances was there any extension of the disease after the Health Department took charge of them.

CONTAGIOUS AND INFECTIOUS DISEASES.

The principal infectious diseases, excluding influenza as an exotic, show an increase for the year, with the single exception of scarlet fever. As compared with the figures for 1891, diphtheria shows an increase of 75 (1,436 against 1,361), measles an increase of 201 (864 against 663), whooping-cough of 19 (371 against 352), small-pox of 79 (81 against 2), and typhoid fever of 16 (400 against 384), while scarlet fever shows a decrease of 243 (977 against 1,220). Diphtheria caused a larger number of deaths than in any year since 1889, measles more than in any year since 1882 (when there were 913), typhoid fever more than in any year since 1883, and small-pox than in any year since 1888, when the number was precisely the same. The decrease of scarlet fever very nearly offsets the increase of diphtheria and measles, the sum of the deaths from these three diseases for 1892 being 3,277, and for 1891, 3,244.

AGES.

The point most worthy of note in the ages of those who died during the year is the great falling off in the deaths of persons 65 years of age and upwards, especially of the female sex, which suffered so severely in the epidemic of influenza in 1891. The number of deaths of such persons during the past year was, on the whole, smaller even than in 1890, as shown in the following table:

Total Deaths by Age and Sex in 1890, 1891 *and* 1892.

	Under 5.		5–14.		15–24.		25–44.	
	M.	F.	M.	F.	M.	F.	M.	F.
1890	8,659	7,646	745	722	1,270	1,232	4,947	3,699
1891	9,732	8,492	957	972	1,352	1,316	4,977	3,799
1892	10,099	8,585	1,004	970	1,397	1,346	5,260	3,770
Increase in 1892	367	93	47	....	45	30	283	....
Decrease in 1892	....	....	....	2	....	....	....	29

Total Deaths by Age and Sex in 1890, 1891 *and* 1892—(Continued).

	45-64.		65-74.		75-84.		85 and Upwards.		Total.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1890	3,935	3,197	1,196	1,179	566	728	127	265	21,435	18,668
1891	4,014	3,427	1,343	1,464	577	813	152	272	23,104	20,555
1892	4,290	3,336	1,307	1,332	559	686	128	260	24,044	20,285
Increase in 1892	276	....	....	....	..	..	..	..	940	....
Decrease in 1892	....	91	36	132	18	127	24	12	....	270

The following table has been prepared to show in what diseases this falling off in deaths of aged persons has taken place :

Comparison of Deaths of Persons 65 *Years of Age and Upwards in* 1891 *and* 1892.

Class of Disease.	1891.	1892.	Increase.	Decrease.
Miasmatic	284	131	..	153
Diarrhœal	130	137	7	..
Constitutional	510	488	..	22
Old age	475	518	43	..
Nervous	540	606	66	..
Circulatory	558	554	..	4
Respiratory	1,139	903	..	236
Digestive	255	270	15	..
Urinary	539	454	..	85
Total	4,430	4,061	131	500

These classes include all in which there are many deaths of aged persons. The total decrease of deaths at 65 and upwards is 349, and this table accounts for a decrease of 369, the decrease being chiefly in the miasmatic and respiratory diseases. Now, turning to these classes, we find that the decrease is virtually accounted for by the difference in the number of deaths from influenza and acute diseases of the respiratory organs usually associated with the prevalence of that disease. For example :

	1891.	1892.	Decrease.
Deaths from influenza	266	116	150
Deaths from bronchitis and pneumonia	842	653	189
Total	1,108	769	339

This shows clearly that the decrease in the deaths of the aged is due to the decline of influenza.

There was an increase of 460 in the deaths of children under 5 years of age. The greater part of this excess was due to diseases of the respiratory and digestive organs. For example:

	1891.	1892.	Increase.
Deaths from bronchitis and pneumonia	3,798	3,951	153
Deaths from gastro-enteritis, gastritis and enteritis	902	1,075	173
Total	4,700	5,026	326

The balance of the excess of deaths for the year, viz., 559, is distributed over the ages between 5 and 65, and on reference to the table of ages it will be seen that the excess was chiefly in deaths of males between 25 and 65. This was in large measure due to the excessive heat of July, the deaths by sunstroke alone of males between 25 and 65 being 204 in excess of those in 1891, and deaths from apoplexy for the same age being 100 in excess.

NATIVITY.

The most striking fact shown by the table of deaths according to nativity is the marked increase of the Russian Jewish element of the population. The following short table shows the number of deaths of persons comprising the greater part of the foreign-born population, and the percentage of such deaths on the total number of deaths:

Birthplace.	Total Deaths.			Percentage on Total Mortality.		
	1890.	1891.	1892.	1890.	1891.	1892.
Russia and Poland	437	635	859	1.09	1.45	1.94
Italy	634	816	795	1.58	1.87	1.79
Ireland	6,622	6,860	6,740	16.51	15.71	15.20
Germany	4,198	4,311	4,373	10.47	9.87	9.86
England	840	876	825	2.09	2.01	1.85

These figures clearly indicate the increased Hebrew immigration brought about by the troubles in Russia, and also the abounding tide of immigrants from Italy, which, however, seems to have reached its height in 1891.

Another indication of the dreadful circumstances under which our exiles left Russia, is found in the fact that the proportion of deaths in institutions to the total deaths of Russian and Polish Jews, which had been about 40 per cent. in 1890 and 1891, rose in 1892 to 45 per cent., due probably to the deeper poverty of that class of the population.

DEATHS BY VIOLENCE.

The deaths by accident and negligence were 1,429 against 1,369 in 1891 and 1,271 in 1890. While some increase is to be expected, perhaps, as the population grows, this number of deaths

from causes that are in great measure preventable seems altogether too large. In the total for the year are included 18 deaths caused by the burning of the Hotel Royal.

Suicides, which increased in 1891 to 300, against 239 in 1890, decreased again in 1892 to 241. The number of suicides has hovered about this point for several years, and, as the population has been all the time growing, the fact that the number of suicides remains practically stationary would seem to indicate a decrease in the tendency to self-destruction.

The number of homicides was only 38, less than in any year since 1869. In fact there has been a gradual decrease in homicides relatively to the population since early in the seventies. This is so interesting that I insert a table to illustrate it. The estimates of population are made up from the United States census of 1870, 1880 and 1890, because the 1890 census put the lowest possible limit upon the population, and it seemed desirable that the marked decrease of homicide should not be attributed to an exaggerated estimate of the population.

Deaths by Homicide, 1869–1892, and Rate per 100,000 of Population.

Year.	Homicides.	Rate per 100,000.	Year.	Homicides.	Rate per 100,000.
1869	37	4.13	1881	65	5.26
1870	45	4.77	1882	76	6.01
1871	65	6.80	1883	62	4.79
1872	69	7.12	1884	55	4.15
1873	73	7.44	1885	59	4.36
1874	59	5.72	1886	63	4.55
1875	62	5.93	1887	70	4.94
1876	55	5.11	1888	57	3.93
1877	57	5.15	1889	72	4.85
1878	58	5.08	1890	61	4.02
1879	48	4.09	1891	56	3.61
1880	58	4.80	1892	38	2.39

The average annual number of homicides per 100,000 for the decennium 1871–1880, inclusive, was 5.72, for the succeeding decennium, 1881–1890, was 4.69, while in the last three or four years the decrease has been almost startling. Whether this has been due to the greater efficiency of the police, to the greater certainty of conviction in the courts, to a lessened consumption of intoxicating liquors, or at least of those liquors that arouse the combativeness of the drinker, to the greater prosperity of the working people, or to some other cause, it would require long study to ascertain, but it is at least singular that the sudden drop of late years coincides with the introduction of the new law regulating executions.

BIRTHS AND MARRIAGES.

The number of births reported for the year was about five-sixths of the probable total, which, as nearly as can be estimated, should be about 63,000. The births reported by physicians constituted 50.48 per cent. of the total, and in 1891 were 51.46 per cent. As it is altogether unlikely

that one-half of the women in childbirth are attended by midwives, it seems probable that the delinquency in reporting births lies chiefly with the medical profession.

The proportion of male to female births was 1.047 to 1, exactly the same as in 1891. The illegitimate births were 2.44 per cent. of the total number, against 2.35 per cent. in 1891. There were 379 pairs of twins and 1 trio of triplets, against 361 and 1, respectively, in 1891.

In the marriage tables it will be noted that 6 colored men married white women, against 5 in 1891, and that one girl of eighteen married a man of fifty-five, and a young man of twenty-five a bride of seventy-five.

SEARCHES AND TRANSCRIPTS.

The number of searches and transcripts of the records of births, marriages and deaths was greater than in 1891, but the increase was not equal to that of 1891 over 1890, there having been 13,065 searches made and 10,427 transcripts issued, against 12,638 and 9,804, respectively, in 1891, representing an increase of only 3⅓ and 6⅓ per cent. in each case, against 14 and 18 per cent. for the previous year.

STILL-BIRTHS.

The number of still-births in New York City is much larger than it ought to be. The annual rate to every 1,000 of the population in the year 1892 was 1.95. This rate, I believe, could be reduced very materially if midwives were required by law to possess some training, or a better knowledge of their work than they now possess. In a report made by me to the Board of Health a few years ago I called attention to the character and ability of persons allowed to practice midwifery in this city. Many women apply to this office to be registered as midwives who are unable to read or write, and some of these midwives have certificates or diplomas from institutes of midwifery in foreign countries; others have letters from physicians stating that they possess the necessary qualifications to practice midwifery. Many of these midwives are dirty, and few of them probably know the value of aseptic midwifery. Our attention has been called in a few instances to the fact that midwives who have attended women who were suffering from puerperal fever, continued their vocation without taking any sanitary precautions whatever; in fact, it is doubtful if they know the necessity for so doing. Midwives, or persons who practice midwifery, who have had no training or instruction in obstetrics, who are unable to read or write, attend at the birth of large numbers of cases in New York City annually, and it is therefore, not to be wondered at that both the still-birth rate and the cases of puerperal fever are high.

Schools for instructing midwives seem to be essential in this city. They are particularly desirable on account of a large portion of the foreign-born population who employ them. The Lying-in Hospital of this city, an old and honored institution, the Midwifery Dispensary and the Maternity Hospitals have done excellent work in attending the poor, but their scope is limited and only reaches a portion of the poor who need them. More adequate measures are needed in this direction, and it would seem that if they combined to form a large maternity hospital in connection with a school that would give theoretical and practical instruction in obstetrics, it would be a desirable measure and supply a necessary want. The poor ought not to suffer for want of competent obstetrical attendance, or be thrown upon the mercy of incompetent accoucheuses or midwives.

As an instance of the value of institutions where skilled obstetricians can be obtained for attendance on the poor, I cite 1,000 cases confined by the out-patient department in the Boston Lying-in Hospital, where I am informed, there was but one death, and that in more than 800 consecutive cases not one terminated fatally.

In a report of the Guy's Hospital Lying-in Charity of London, England, 25,489 cases were treated at their homes, and of this number there were but 86 deaths, or one in 296 cases. It must be remembered that these cases were attended at the homes of the very poor, whose homes are illy ventilated, stuffy and squalid, where the food and surroundings are poor, and the facilities for the care of the patients very meagre.

Respectfully submitted,

JOHN T. NAGLE, M. D., Register of Records.

REPORT OF

Year Ending December 31, 1892.	Certificates Received and Tabulated.	Increase Over Previous Year.	Decrease from Previous Year.
Marriages	16,001	237	....
Births	49,447	2,543	....
Deaths	44,317	683	....
Still-births	3,573	159	....

Particulars Regarding Births, Deaths, Marriages

	Total.	White.		Colored.		Native Parents.		Foreign Parents.		Parentage of Mixed Nativities.		Parentage Unknown or not Stated.	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Marriages	16,001	15,705	15,711	296	290	....	....	....	....	....	....	....	....
Births	49,447	25,027	23,863	264	293	6,119	5,756	14,897	14,420	3,759	3,527	516	453
Deaths	44,317	23,554	19,798	489	476	4,239	3,632	15,131	12,836	2,821	2,501	1,852	1,305
* Still-births	3,573	2,035	1,437	48	45	458	358	1,187	813	267	171	171	140

* Sex undetermined, 8.

Places where Deaths Occurred during

Institutions	9,847
Tenement-houses, three families or more	28,840
Dwellings with less than three families	4,609

VITAL STATISTICS.

Rate per 1,000, Population Estimated at 1,827,396.	Burial Permits Issued.	Transit Permits Issued.	Coroners' Cases.	Searches Made.	Transcripts Issued.	Indexed.
8.76	....	....	....	1,801	882	16,001
27.06	....	....	....	1,401	767	49,447
24.25	44,317	771	5,101	9,863	8,778	44,317
1.95	3,573	....		...	....	3,573

and Still-Births Reported for Year 1892.

Single.		Married.		Widowed.		Not Stated.		Non-Residents.	The Returns of Births, Marriages and Still-births are Incomplete.										
M.	F.	M.	F.	M.	F.	M.	F.		Month of Utero-gestation.										
									1	2	3	4	5	6	7	8	9	10	Not Stated.
14,008	14,384	....	....	1,993	1,617	....	....	....											
....	....	....	....	....	....	....	....	....											
15,393	11,691	6,376	4,998	1,921	3,497	353	88	604											
....	....	....	....	....	....	....	....	....	..	9	64	151	259	475	552	517	1,529	10	7

Year 1892 (*Actual Number of Deaths*).

Hotels and boarding-houses	44
Elsewhere	586
Total	44,389

Deaths of Males, by Age and Cause of Death, with

Cause of Death.	Total of Both Sexes.	All Ages.	0	1	2	3	4
I.—Specific Febrile (Zymotic) Diseases.							
Miasmatic.							
Small-pox	81	48	10	4	4	2	1
Chicken-pox	9	4	1	1	1	1	..
Measles	864	451	151	166	61	33	19
Scarlet fever	977	482	39	63	99	90	55
Diphtheria	1,436	753	60	167	173	128	87
Mumps	6	3	2	..	..	..	..
Whooping-cough	371	156	71	51	18	9	5
Fever, typhoid	400	230	1	4	2	4	1
Fever, yellow	1	1	..	..	..	..	..
Fever, typhus	45	34	..	..	..	1	..
Influenza	495	242	15	9	4	1	2
Fever, cerebro-spinal	230	128	24	21	11	10	5
Total miasmatic diseases	4,915	2,532	374	486	373	279	175
Diarrhœal.							
Asiatic cholera	9	6	..	..	..	..	..
Cholera morbus	94	43	6	1	..	..	..
Cholera infantum	1,547	832	677	137	11	5	1
Diarrhœa, enterocolitis	1,811	918	652	132	20	6	6
Dysentery	141	69	18	5	2	2	1
Total diarrhœal diseases	3,602	1,868	1,353	275	33	13	8
Malarial fevers	161	72	18	9	1	3	1
Zoogenous.							
Malignant pustule	3	2	..	..	..	..	..
Syphilis	112	61	34	2	1	..	..
Septic.							
Erysipelas	189	96	42	1	..	..	..
Pyæmia, septicæmia	22	14	4	2	..	..	..
Puerperal fever	277	..	..	..	..	..	..
Total septic diseases	488	110	46	3	..	..	..
Other zymotic diseases	1	1	1	..	..	..	..
Total zymotic diseases	9,282	4,646	1,826	775	408	295	184

Total of both Sexes, for Year ending December 31, 1892.

Total. Under 5.	5	10	15	20	25	35	45	55	65	75	85	Colored.
21	1	..	..	5	8	6	3	3	..	1	..	4
4	..	..	..	..	..	..	..	..	..	..	..	..
430	17	1	1	..	..	1	1	..	..	..	..	6
346	101	17	7	5	4	2	..	..	..	..	..	..
615	112	12	4	3	1	3	2	..	1	..	..	3
2	..	..	..	..	..	1	..	..	..	..	..	..
154	2	..	..	..	..	..	..	..	..	..	..	5
12	10	15	26	40	72	34	9	7	2	3	..	3
..	..	..	..	..	..	..	1	..	..	..	..	..
1	..	1	..	2	8	13	7	2	..	..	..	..
31	1	..	6	13	36	35	28	41	29	18	4	10
71	23	6	8	5	4	5	4	1	1	..	..	4
1,687	267	52	52	73	133	100	55	54	33	22	4	35
..	..	..	..	..	1	2	3	..	..	..	..	..
7	1	..	1	2	6	8	7	5	5	1	..	..
831	1	..	..	..	..	..	..	..	..	..	..	33
816	4	2	1	4	9	16	9	28	17	9	3	21
28	..	2	1	2	7	9	6	8	5	1	..	1
1,682	6	4	3	8	23	35	25	41	27	11	3	55
32	6	2	1	3	8	8	3	4	4	1	..	3
..	..	..	..	1	..	..	1	..	..	..	..	..
37	..	..	1	1	7	6	4	4	1	..	..	3
43	1	1	3	..	11	11	11	5	5	4	1	..
6	4	..	..	..	..	1	1	2	..	..	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..
49	5	1	3	..	11	12	12	7	5	4	1	2
1	..	..	..	..	..	..	..	..	..	..	..	..
3,488	284	59	60	86	182	161	100	110	70	38	8	98

Deaths of Males, by Age and Cause of Death, with Total of

Cause of Death.	Total of Both Sexes.	All Ages.	0	1	2	3	4
II.—Parasitic Diseases.							
Aphthæ (thrush)	10	4	4	..	..	..	..
Trichinosis	2	2	..	..	..	..	..
Leprosy	1	1	..	..	..	..	..
Total parasitic diseases	13	7	4	..	..	..	..
III.—Dietetic Diseases.							
Starvation, want of breast milk	3	1	1	..	..	..	..
Scurvy	1	..	..	..	..	..	..
Intemperance—Alcoholism	367	291	..	..	..	1	..
Total dietetic diseases	371	292	1	..	..	1	..
IV.—Constitutional Diseases.							
Acute rheumatism (rheumatism of the heart)	138	70	..	..	1	2	..
Rheumatism	2	1	..	..	..	..	..
Gout	3	1	..	..	..	..	..
Rickets	13	9	5	2	2	..	..
Cancer	996	356	..	..	1	1	1
Tabes mesenterica	40	19	12	4	1	..	..
Tubercular meningitis	634	351	148	90	28	14	19
Phthisis	5,033	2,917	32	29	15	6	3
Other forms of tuberculosis, scrofula	300	175	42	25	5	5	3
Purpura, hæmophilia	26	11	6	..	..	..	..
Anæmia, chlorosis, leucocythæmia	65	28	4	..	1	..	1
Diabetes	123	66	2	..	..	1	..
Other constitutional diseases	70	46	10	5	1	..	..
Total constitutional diseases	7,443	4,050	261	155	55	29	27
V.—Developmental Diseases.							
Premature birth	776	442	441	1	..	..	..
Atelectasis	185	97	97	..	..	..	..
Cyanosis	71	48	46	2	..	..	..
Umbilical hemorrhage	19	10	10	..	..	..	..
Spina bifida	31	16	16	..	..	..	..
Imperforate anus	10	7	7	..	..	..	..
Cleft palate, hare lip	14	8	7	..	1	..	..
Other congenital defects	154	81	81	..	..	..	..
Old age	554	206	..	..	..	..	..
Total developmental diseases	1,814	915	705	3	1	..	..

Each Sexes, for Year ending December 31, 1892—(Continued).

Total Census	5	10	15	20	25	35	45	55	65	75	85	Colored.
4	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	1	..	..	1	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..
4	..	..	..	..	1	1	..	1	..	..	..	..
1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	10	92	91	64	23	7	3	..	1
2	..	..	..	10	92	91	64	23	7	3	..	1
3	2	2	2	2	8	11	17	8	12	3	..	1
..	..	..	..	..	..	..	1	..	..	..	..	.
..	..	..	..	..	..	..	1	..	..	..	.	
3	..	..	..	..	..	..	..	..	..	..	.	..
3	2	4	2	6	22	38	89	108	62	18	4	1
17	1	..	..	..	1	..	..	..	..	.		
299	23	8	2	5	7	2	3	2	..	.		1.1
85	17	17	128	351	838	709	447	207	118	111	4	84
80	4	1	8	10	31	22	15	3	1			11
6	1	1	..	1	1	..	1	..				
6	1	2	2	3	..	2	3	6	1			1
3	..	1	2	3	5	7	12	19	11	4	1	
16	..	2	1	6	10	3	3	2	1			1
527	51	38	147	387	923	714	590	111	19	1	1	1.4
442	..	..	..	..	..	..						1.1
97	..	..	.	..	..	.						1
48	..	..	..	..	..		.					
10	..	..	..	..	..							
16	..	..	..	..	..							
7	..	.	..	..								
8	..	..	.									
81	..	..										
							.	..	.	.	..	1
709							.	.	.	.	..	..

Deaths of Males, by Age and Cause of Death, with Total of

Cause of Death.	Total of Both Sexes.	All Ages.	0	1	2	3	4
VI.—Local Diseases.							
Diseases of Nervous System.							
Meningitis, encephalitis	1,020	588	198	93	42	27	24
Chronic hydrocephalus	26	17	8	3	2	..	..
Apoplexy	1,194	633	6	3	1	1	..
Softening of brain	66	42	..	..	..	..	..
Hemiplegia, brain paralysis	167	73	..	..	2	..	..
Insanity, general paresis	234	165	..	..	..	..	..
Epilepsy	110	55	6	3	..	1	1
Convulsions	511	274	228	25	9	7	1
Congestion of brain	111	70	41	8	5	2	1
Laryngismus stridulus	23	13	7	2	3	..	1
Idiopathic tetanus, trismus	36	25	25	..	..	..	..
Paraplegia, myelitis	75	42	..	..	..	..	1
Locomotor ataxy	22	17	..	..	..	..	..
Other diseases of nervous system	60	32	1	1	..	..	..
Total diseases of nervous system	3,655	2,046	520	138	64	38	29
Diseases Organs of Special Sense.							
Otitis, otorrhœa, mastoid abscess	61	41	6	6	1	1	3
Other diseases, eye, ear and nose	1	1	..	..	..	..	..
Total diseases organs of special sense.	62	42	6	6	1	1	3
Diseases of Circulatory System.							
Endocarditis, valvular disease of heart	1,569	816	11	1	1	3	1
Pericarditis	96	57	2	1	1	..	1
Hypertrophy of heart	82	46	..	..	..	..	..
Fatty degeneration of heart	200	103	..	..	..	..	..
Heart disease	312	163	..	..	1	..	..
Angina pectoris	70	47	..	..	..	..	..
Aneurism	56	41	..	..	..	..	..
Senile gangrene	27	9	..	..	..	..	..
Embolism, thrombosis	70	31	1	..	..	..	..
Phlebitis	6	1	..	..	..	..	..
Other diseases of circulatory system	19	11	..	..	..	..	1
Total diseases of circulatory system	2,507	1,325	14	2	3	3	3

both Sexes, for Year ending December 31, 1892—(Continued).

Total Under 5.	5	10	15	20	25	35	45	55	65	75	85	Colored.
384	34	16	9	12	43	35	26	13	12	4	..	9
13	2	2	..	..	..	..	..	..	..	..	..	..
11	..	1	..	8	40	68	124	179	137	54	11	7
..	..	..	1	1	..	..	11	11	9	8	1	1
2	..	1	..	..	6	2	10	20	18	9	5	2
..	..	..	..	4	21	65	34	23	15	3	..	2
11	2	5	3	6	7	7	5	6	2	1	..	2
270	3	..	..	..	..	1	..	..	..	..	..	10
57	1	2	1	1	3	1	..	1	3	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..
25	..	..	..	..	..	..	..	..	..	..	..	..
1	1	1	1	..	6	7	8	9	5	2	1	..
..	..	..	..	..	1	3	6	5	1	1	..	..
2	1	1	3	..	9	3	4	5	4	..	..	..
789	44	29	18	32	136	192	228	272	206	82	18	33
17	1	4	5	1	4	4	4	..	..	1	..	..
..	..	..	..	..	1	..	..	..	..	..	..	..
17	1	4	5	1	5	4	4	..	..	1	..	..
17	17	27	37	42	103	128	153	145	106	35	6	17
5	3	..	2	5	11	11	7	7	6	..	..	3
..	2	1	1	..	4	5	8	5	17	3	..	2
..	..	..	..	..	6	22	27	25	15	8	..	1
1	5	4	4	5	15	26	31	36	26	8	2	5
..	..	..	..	..	2	7	15	12	6	5	..	2
..	..	..	..	1	5	9	17	6	2	1	..	4
..	..	..	..	..	..	..	..	2	2	3	2	..
1	..	..	1	1	3	4	5	8	7	1	..	1
..	..	..	..	..	..	..	..	1	..	..	..	..
1	..	..	..	..	1	3	..	3	2	1	..	..
25	27	32	45	54	150	215	263	250	189	65	10	35

Deaths of Males, by Age and Cause of Death, with Total of

Cause of Death.	Total of Both Sexes.	All Ages.	0	1	2	3	4
Diseases of Respiratory System.							
Croup	670	366	32	102	97	59	36
Laryngitis	79	41	7	4	7	5	2
Emphysema, asthma	87	38	1	..	..	1	..
Bronchitis	1,754	930	500	138	47	22	9
Chronic bronchitis	380	157	13	3	..	1	..
Pneumonia	5,841	3,363	730	440	149	77	48
Pleurisy	127	75	7	3	2	..	..
Hydrothorax, empyema	75	47	5	7	4	2	1
Congestion of lungs	138	81	39	4	3	1	..
Hemorrhage of lungs	47	33	3	..	..	..	..
Other diseases of respiratory system	44	28	2	..	1	..	1
Total diseases of respiratory system	9,242	5,159	1,339	701	310	168	97
Diseases of Digestive System.							
Stomatitis	20	10	9	1	..	..	..
Dentition	155	76	61	15	..	..	..
Tonsilitis, quinsy	14	7	2	..	1	..	..
Gastritis	225	89	23	6	4	..	..
Gastro-enteritis	897	456	335	72	6	4	6
Ulcer of stomach	74	34	..	..	..	..	..
Enteritis	231	122	86	16	5	..	..
Ulcer of intestine, chronic diarrhœa	94	52	2	1	..	..	..
Ileus, obstruction of intestine	117	53	12	3	1	..	..
Stricture or strangulation of intestine	3	2	1	..	..	..	..
Intussusception of intestine	1	..	..	..	..	..	..
Typhlitis, perityphlitis, perforation of vermiform appendix	129	78	..	..	1	..	..
Hernia	84	46	4	..	..	..	..
Peritonitis	257	116	16	1	1	4	1
Hepatitis	71	40	1	..	..	..	..
Cirrhosis	359	225	1	..	..	..	..
Jaundice	34	15	8	..	2	..	..
Gall-stones, biliary colic, etc	20	6	2	..	..	..	..
Other diseases of liver	61	31	..	..	..	1	..
Other diseases of digestive system	174	89	34	4	4	4	..
Total diseases of digestive system	3,020	1,547	597	119	25	13	7

both Sexes, for Year ending December 31, 1892—(Continued).

Total Under 5.	5	10	15	20	25	35	45	55	65	75	85	Colored.
326	36	..	..	..	1	1	2	..	..	..	..	2
25	6	..	1	1	3	3	..	1	..	1	..	1
2	..	..	..	..	2	2	8	11	10	3	..	1
716	16	1	1	11	24	26	40	30	34	24	7	26
17	..	..	2	1	11	10	18	36	38	17	7	2
1,444	91	22	60	131	391	425	306	264	152	62	15	73
12	1	2	4	10	10	8	12	9	6	1	..	2
19	1	..	..	2	9	5	5	4	2	..	..	..
47	2	1	1	1	5	5	5	5	5	4	..	2
3	..	..	..	3	11	6	6	2	..	2	..	2
4	..	..	..	..	9	8	4	3	..	..	..	1
2,615	153	26	69	160	476	499	406	365	247	114	29	112
10	..	..	..	..	..	..	..	..	..	..	..	1
76	..	..	..	..	..	..	..	..	..	..	..	4
3	1	..	..	..	1	..	1	..	1	..	..	..
33	1	..	1	3	5	11	11	11	11	2	..	3
423	1	1	1	1	4	5	7	5	7	1	..	6
..	1	1	1	1	7	9	7	4	2	1	..	..
107	1	..	1	..	2	..	2	5	3	1	..	..
3	..	..	1	1	4	7	10	11	9	4	2	..
16	3	..	1	5	5	6	7	4	5	1	..	1
1	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..
1	6	10	6	17	14	7	7	5	4	1	..	1
4	..	..	..	2	8	4	8	6	9	3	2	..
23	12	4	17	8	18	7	8	13	5	1	..	4
1	1	..	..	1	4	10	12	7	2	2	..	..
1	..	1	..	2	30	50	49	61	25	4	2	2
10	..	..	..	..	1	2	1	..	1	..	..	..
2	..	..	..	..	..	..	1	2	1	..	..	..
1	..	..	..	2	4	10	7	3	3	1	..	..
46	2	1	1	1	6	9	9	7	6	1	..	1
761	29	18	30	44	113	137	147	145	94	23	6	23

Deaths of Males, by Age and Cause of Death, with Total of

Cause of Death.	Total of Both Sexes.	All Ages.	0	1	2	3	4
Diseases of Lymphatic System and Ductless Glands.							
Lymphadenoma (Hodgkin's disease)	5	2	..	..	..	..	..
Exophthalmic goitre (Basedow's disease)	5	1	..	..	..	..	..
Addison's disease	4	3	..	..	..	..	..
Other diseases of lymphatic system	6	4	2	1	..	..	..
Total diseases of lymphatic system	20	10	2	1	..	..	..
Diseases of the Urinary System.							
Acute nephritis	404	229	18	10	3	9	4
Bright's disease, albuminuria	1,991	1,078	6	4	4	2	2
Uræmia, suppression of urine	52	21	4	1	..	2	..
Calculus	8	6	..	..	..	..	..
Diseases of bladder and prostate gland	77	66	..	..	..	..	..
Other diseases of urinary system	11	6	1	..	..	..	..
Total diseases of urinary system	2,543	1,406	29	15	7	13	6
Diseases of Organs of Generation.							
Ovarian diseases	64	..	..	..	..	..	..
Diseases of uterus and vagina	95	..	..	..	..	..	..
Pelvic abscess	10	3	1	..	..	..	..
Perineal abscess	2	1	..	..	..	1	..
Diseases penis, testes, scrotum, etc.	23	19	2	..	..	..	..
Total diseases of organs of generation.	194	23	3	..	..	1	..
Diseases of Parturition.							
Abortion, miscarriage	30	..	..	..	..	..	..
Puerperal convulsions	57	..	..	..	..	..	..
Puerperal mania	1	..	..	..	..	..	..
Placenta prævia, flooding	16	..	..	..	..	..	..
Post-partum hemorrhage	15	..	..	..	..	..	..
Other diseases of parturition	21	..	..	..	..	..	..
Total diseases of parturition	140	..	..	..	..	..	..

both Sexes, for Year ending December 31, 1892—(Continued).

Total Under 5.	5	10	15	20	25	35	45	55	65	75	85	Colored.
..	..	1	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	1	..	..	..	..	..	..	..
..	..	1	..	1	..	..	..	..	1	..	..	..
3	..	..	..	..	..	1	..	..	..	..	..	..
3	..	2	..	1	1	1	1	..	1	..	..	..
44	16	5	6	9	25	34	40	29	15	5	2	2
18	15	8	13	26	126	223	249	211	130	53	6	24
7	1	..	1	3	2	2	2	1	2	..	..	1
..	..	..	..	..	1	3	1	1	..	..	..	..
..	..	..	..	..	1	2	7	11	20	22	3	2
1	..	..	..	..	..	1	2	..	2	..	..	..
70	32	13	20	38	155	265	301	253	169	80	10	29
..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	1	1	..	..	..	..	..	..
1	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	2	2	4	1	3	4	..	1	1
4	..	..	..	2	3	5	1	3	4	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..

Deaths of Males, by Age and Cause of Death, with Total of

Cause of Death.	Total of Both Sexes.	All Ages.	0	1	2	3	4
Diseases of Organs of Locomotion.							
Caries, necrosis	17	10	1	..	..	..	..
Arthritis, ostitis, periostitis	24	9	..	..	..	..	..
Spinal disease	34	20	..	1	1	1	1
Hip disease	20	14	..	..	1	1	1
Other diseases of locomotory system	13	7	..	..	..	..	..
Total diseases of organs of locomotion.	108	60	1	1	2	2	2
Diseases of the Integumentary System.							
Carbuncle	10	5	1	..	..	..	..
Phlegmon, cellulitis	6	4	1	..	..	..	..
Ulcer, bedsore	10	4	..	..	..	1	..
Eczema	9	6	5	1	..	..	..
Pemphigus	6	4	1	1	..	..	..
Other diseases of integumentary system	53	26	9	1	..	..	..
Total diseases of integumentary system	94	49	17	3	..	1	..
Total local diseases.	21,585	11,667	2,528	986	412	240	147
VII.—Violence. *Accident and Negligence.*							
Fractures, contusions	835	681	6	12	13	13	17
Wounds	56	38	1	..	1	1	..
Burn, scald	179	78	5	16	12	9	7
Poison	56	30	..	1	..	1	..
Drowning	187	166	..	1	..	1	..
Suffocation	99	64	19	1	1	..	..
Sunstroke	320	226	9	3	1	2	..
Surgical operations	151	53	7	1	..	3	2
Neglect, exposure	12	7	4	1	..	..	..
Other forms	5	3	..	..	..	..	..
Total accident and negligence	1,900	1,346	51	36	28	30	26
Homicide.							
Blows	13	10	..	..	..	..	..
Cut, stab	9	8	..	..	..	..	..
Gunshot	11	7	..	..	..	..	..
Other methods	5	4	..	..	..	..	..
Total homicides	38	29	..	..	..	..	..

both Sexes, for Year ending December 31, 1892—(Continued).

Total Under 5.	5	10	15	20	25	35	45	55	65	75	85	Colored.
1	..	..	1	..	2	1	1	1	3	..	..	..
..	5	..	..	..	1	2	1	..	..	..	..	..
4	3	4	2	..	2	2	1	1	1	..	..	2
3	2	4	1	2	1	1	..	..	..	..	..	..
..	..	1	1	..	2	1	1	1	..	..	..	1
8	10	9	5	2	8	7	4	3	4	..	..	3
1	..	..	..	..	..	..	1	..	1	2	..	..
1	..	..	..	1	..	1	..	..	1	..	..	1
1	..	..	..	..	..	..	1	2	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..
2	1	..	..	..	..	..	..	1	..	..	..	..
10	1	..	..	5	..	2	5	1	..	2	..	..
21	2	..	..	6	..	3	7	4	2	4	..	1
4,313	298	133	192	340	1,047	1,328	1,362	1,295	916	369	74	237
61	66	31	25	59	138	134	89	43	18	13	4	5
3	1	1	5	4	11	2	3	4	3	1	..	..
49	6	1	3	2	4	4	5	3	1	..	..	..
2	1	1	..	3	8	8	4	1	2	..	..	..
2	13	13	15	14	31	44	22	9	3	..	..	3
21	..	1	..	1	14	8	8	6	4	1	..	3
15	2	..	1	10	55	51	62	23	4	3	..	..
13	..	2	1	6	2	7	12	4	5	1	..	1
5	..	..	..	..	..	1	..	1	..	..	..	2
..	..	..	..	..	..	1	1	..	1	..	..	..
171	89	50	50	99	263	260	206	94	41	19	4	13
..	1	..	..	1	3	4	..	1	..	..	..	..
..	..	..	1	3	2	2	..	..	..	..	..	1
..	..	..	2	1	1	2	..	..	1	..	..	..
..	..	..	..	..	..	2	1	1	..	..	..	..
..	1	..	3	5	6	10	1	2	1	..	..	1

Deaths of Males, by Age and Cause of Death, with Total of

Cause of Death.	Total of Both Sexes.	All Ages.	0	1	2	3	4
Suicide.							
Illuminating gas	10	8	..	..	..	..	..
Cut, stab	17	16	..	..	..	..	..
Drowning	4	3	..	..	..	..	..
Gunshot	85	85	..	..	..	..	..
Hanging	51	45	..	..	..	..	..
Leaps	17	8	..	..	..	..	..
Poison	52	34	..	..	..	..	..
Other methods	5	3	..	..	..	..	..
Total suicides	241	202	..	..	..	..	..
Total violence	2,179	1,577	51	36	28	30	26
VIII.—Ill-defined or Not Specified Causes.							
Debility, marasmus, inanition	1,474	788	744	28	6	4	1
Injury at birth	166	102	102	..	..	..	..
Total ill-defined causes	1,642	890	846	28	6	4	1
I.—Specific febrile diseases	9,282	4,646	1,826	775	408	295	184
II.—Parasitic diseases	13	7	4	..	..	..	..
III.—Dietetic diseases	371	292	1	..	..	1	..
IV.—Constitutional diseases	7,443	4,050	261	155	55	29	27
V.—Developmental diseases	1,814	915	705	3	1	..	..
VI.—Local diseases	21,585	11,667	2,528	986	412	240	147
VII.—Violence	2,179	1,577	51	36	28	30	26
VIII.—Ill-defined causes	1,642	890	846	28	6	4	1
Total, all causes	44,329	24,044	6,222	1,983	910	599	385

both Sexes, for Year ending December 31, 1892—(Continued).

Total Under 5	5	10	15	20	25	35	45	55	65	75	85	Colored.
..	..	..	..	..	3	5	..	..	..	..	..	..
..	..	..	..	1	1	5	6	2	1	..	..	..
..	..	..	..	..	..	2	..	..	..	1	..	..
..	..	..	3	8	22	23	15	11	2	1	..	..
..	..	..	..	1	8	9	15	8	3	1	..	..
..	..	..	..	2	2	1	1	1	1	..	..	..
..	..	..	..	2	10	7	5	5	5	..	..	..
..	..	..	..	..	2	..	..	1	..	..	..	..
..	..	..	3	14	48	52	42	28	12	3	..	..
171	90	50	56	118	317	322	249	124	54	22	4	14
783	1	..	..	1	..	1	1	..	..	1	..	13
102	..	..	..	..	..	..	..	..	..	..	..	1
885	1	..	..	1	..	1	1	..	..	1	..	14
3,488	284	59	60	86	182	161	100	110	70	38	8	98
4	..	..	..	..	1	1	..	1	..	..	..	..
2	..	..	..	10	92	91	64	23	7	3	..	1
527	51	38	147	387	923	794	590	355	198	35	5	109
709	..	..	..	..	..	..	4	12	62	91	37	16
4,313	298	133	192	340	1,047	1,328	1,362	1,295	916	369	74	237
171	90	50	56	118	317	322	249	124	54	22	4	14
885	1	..	..	1	..	1	1	..	..	1	..	14
10,099	724	280	455	942	2,562	2,698	2,370	1,920	1,307	559	128	489

Deaths of Females, by Age and Cause of

Cause of Death.	All Ages.	0	1	2	3	4
I.—Specific Febrile (Zymotic) Diseases.						
Miasmatic.						
Small-pox	33	10	3	1	3	1
Chicken-pox	5	1	..	1	..	2
Measles	413	111	150	66	32	24
Scarlet fever	495	29	74	105	77	53
Diphtheria	683	41	130	140	130	80
Mumps	5	..	2	..	..	..
Whooping-cough	215	104	58	26	10	9
Fever, typhoid	170	2	2	..	1	1
Fever, typhus	11	..	1	1	..	..
Influenza	253	18	4	4	1	..
Fever, cerebro-spinal	102	25	10	8	7	5
Total miasmatic diseases	2,383	341	434	352	261	175
Diarrhœal.						
Asiatic cholera	3	..	1	..	..	..
Cholera morbus	51	7	1	1	..	..
Cholera infantum	715	576	124	12	1	1
Diarrhœa, enterocolitis	893	597	113	12	1	3
Dysentery	72	22	6	1	1	..
Total diarrhœal diseases	1,734	1,202	245	26	3	4
Malarial fevers	89	9	6	6	6	4
Zoogenous.						
Malignant pustule	1	..	..	..	..	..
Syphilis	51	36	..	2	..	..
Septic.						
Erysipelas	93	46	5	1	..	..
Pyæmia, septicæmia	8	3	..	..	..	..
Puerperal fever	277	..	..	..	..	..
Total septic diseases	378	49	5	1	..	..
Total zymotic diseases	4,636	1,637	690	387	270	183

Death, Year ending December 31, 1892.

Total Under 5.	5	10	15	20	25	35	45	55	65	75	85	Colored.
18	2	..	2	3	5	1	..	2	..	..	..	..
4	1	..	..	..	..	..	..	..	..	..	..	..
383	27	..	..	1	1	1	..	..	..	..	..	4
338	116	15	7	9	6	1	1	1	..	1	..	3
521	132	12	3	7	4	..	2	2	..	..	..	5
2	..	..	..	..	..	..	..	..	..	..	1	..
207	8	..	..	..	..	..	..	..	..	..	..	1
6	14	5	27	32	40	19	14	9	4	..	..	3
2	..	..	1	1	2	3	1	..	..	1	..	..
27	2	3	6	18	29	23	33	47	34	26	5	4
55	16	6	4	6	6	4	4	1	..	..	..	2
1,563	318	41	50	77	93	52	55	62	38	28	6	22
1	..	..	..	..	1	..	..	1	..	..	..	..
9	1	..	1	..	6	4	8	8	9	4	1	..
714	1	..	..	..	..	..	..	..	..	..	..	15
726	7	1	2	5	15	13	19	38	36	22	9	16
30	..	1	1	1	4	7	7	6	10	5	..	..
1,480	9	2	4	6	26	24	34	53	55	31	10	31
31	8	3	3	2	9	8	6	10	7	1	1	1
..	..	..	..	..	..	..	..	..	..	..	1	..
38	..	..	1	2	5	4	..	1	..	..	..	1
52	..	..	2	4	6	6	6	7	8	2	..	3
3	..	..	1	1	2	..	1	..	..	..	..	..
..	..	..	11	60	146	57	3	..	..	..	..	5
55	..	..	14	65	154	63	10	7	8	2	..	8
3,167	335	46	72	152	287	151	105	133	108	62	18	63

Deaths of Females, by Age and Cause of Death,

Cause of Death.	All Ages.	0	1	2	3	4
II.—Parasitic Diseases.						
Aphthæ (thrush)	6	6	..	..	..	..
III.—Dietetic Diseases.						
Starvation, want of breast milk	2	..	..	..	..	..
Scurvy	1	..	..	..	..	..
Intemperance—Alcoholism	76	..	1	..	..	..
Total dietetic diseases	79	..	1	..	..	..
IV.—Constitutional Diseases.						
Acute rheumatism (rheumatism of the heart)	68	..	..	1	..	..
Rheumatism	1	..	..	..	..	..
Gout	2	..	..	..	..	..
Rickets	4	3	..	..	1	..
Cancer	640	..	2	..	2	..
Tabes mesenterica	21	16	2	2	..	..
Tubercular meningitis	283	115	61	37	19	10
Phthisis	2,116	29	21	10	8	5
Other forms of tuberculosis, scrofula	125	36	19	5	1	2
Purpura, hæmophilia	15	4	1	..	..	..
Anæmia, chlorosis, leucocythæmia	37	4	1	1	..	..
Diabetes	57	..	..	..	..	..
Other constitutional diseases	24	6	1	..	..	..
Total constitutional diseases	3,393	213	108	56	31	17
V.—Developmental Diseases.						
Premature birth	334	334	..	..	..	..
Atelectasis	88	88	..	..	..	..
Cyanosis	23	23	..	..	..	..
Umbilical hemorrhage	9	9	..	..	..	..
Spina bifida	15	15	..	..	..	..
Imperforate anus	3	3	..	..	..	..
Cleft palate, hare lip	6	4	1	..	..	..
Other congenital defects	73	71	..	1	..	..
Old age	348	..	..	..	..	..
Total developmental diseases	899	547	1	1	..	..

Year ending December 31, 1892—(Continued).

Total Under 5.	5	10	15	20	25	35	45	55	65	75	85	Colored.
6	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	1	..	1	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..
1	1	..	..	8	21	21	14	8	2	..	..	..
1	1	..	..	8	21	23	14	9	2	..	..	..
1	6	2	1	4	5	8	12	9	12	7	1	1
..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	1	..	1	..	..	..	1
4	..	..	..	..	..	..	..	..	..	..	..	1
4	..	..	2	4	42	135	190	147	86	27	3	16
20	1	..	..	..	..	..	..	..	..	..	..	2
242	27	6	2	2	2	1	1	..	..	..	..	4
73	22	39	165	301	685	403	219	117	67	19	6	79
63	6	3	9	10	16	12	2	3	1	..	..	8
5	1	1	..	..	..	2	3	2	1	..	..	..
6	1	3	5	1	3	6	5	5	1	1	..	..
..	1	..	2	1	6	7	6	18	14	2	..	..
7	..	1	2	2	4	3	2	2	1	..	..	2
425	65	55	188	325	763	578	440	304	184	56	10	114
334	..	..	..	..	..	..	..	..	..	..	..	5
88	..	..	..	..	..	..	..	..	..	..	..	3
23	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..
5	1	..	..	..	..	..	..	..	..	..	..	..
72	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	7	13	88	144	96	9
549	2	..	..	..	..	..	7	13	88	144	96	17

Deaths of Females, by Age and Cause of Death,

Cause of Death.	All Ages.	0	1	2	3	4
VI.—Local Diseases.						
Diseases of Nervous System.						
Meningitis, encephalitis	432	150	81	35	23	15
Chronic hydrocephalus	9	6	1	..	..	..
Apoplexy	561	7	2	..	..	..
Softening of brain	24	..	..	..	..	..
Hemiplegia, brain paralysis	94	1	..	..	..	..
Insanity, general paresis	69	..	..	..	..	..
Epilepsy	55	10	2	3	1	1
Convulsions	237	191	27	9	4	2
Congestion of brain	41	16	12	1	1	3
Laryngismus stridulus	10	7	2	..	1	..
Idiopathic tetanus, trismus	11	8	..	..	..	..
Paraplegia, myelitis	33	1	..	..	..	..
Locomotor ataxy	5	..	..	..	..	..
Other diseases of nervous system	28	..	1	1	1	..
Total diseases of nervous system	1,609	397	128	49	31	21
Diseases Organs of Special Sense.						
Otitis, otorrhœa, mastoid abscess	20	3	3	1	1	1
Diseases of Circulatory System.						
Endocarditis, valvular disease of heart	753	8	3	..	2	5
Pericarditis	39	3	..	..	..	1
Hypertrophy of heart	36	..	..	..	..	..
Fatty degeneration of heart	97	1	..	..	..	..
Heart disease	149	2	1	..	..	1
Angina pectoris	23	1	..	..	..	..
Aneurism	15	..	..	..	..	..
Senile gangrene	18	..	..	..	..	..
Embolism, thrombosis	39	4	..	..	..	1
Phlebitis	5	2	..	.	..	..
Other diseases circulatory system	8	1	..	..	..	..
Total diseases of circulatory system	1,182	22	4	..	2	8

Year ending December 31, 1892—(Continued).

Total Under 5.	5	10	15	20	25	35	45	55	65	75	85	Colored.
304	32	11	7	7	15	16	14	11	8	4	3	7
7	1	..	..	..	..	..	..	1	..	..	..	..
9	3	1	2	4	24	50	120	143	118	67	20	11
..	..	1	..	1	..	1	3	4	6	7	1	1
1	1	2	1	1	3	10	14	25	19	16	1	4
..	1	1	3	3	6	9	13	14	8	4	7	2
17	2	2	3	7	5	9	9	1	..	..	..	4
233	1	..	..	1	2	..	..	..	..	..	..	2
33	2	..	..	..	1	1	2	1	1	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	1
8	..	..	..	..	1	1	1	..	..	..	..	..
1	..	..	..	1	8	2	11	5	5	..	..	1
..	..	..	..	..	2	1	..	1	..	1	..	..
3	1	..	..	1	4	5	4	6	1	2	1	..
626	44	18	16	26	71	105	191	214	166	101	33	33
9	1	..	2	2	2	2	2	..	..	..	..	..
18	23	34	39	28	97	99	109	129	120	49	8	20
4	4	3	5	5	3	3	4	5	2	1	..	5
.	1	3	2	2	1	3	5	7	6	5	1	3
1	..	..	..	..	10	13	23	25	17	5	3	2
4	1	5	6	6	12	20	27	33	25	10	..	3
1	..	1	..	..	1	3	4	3	7	2	1	1
..	..	2	..	1	1	..	7	3	1	..	..	..
..	..	..	..	..	..	..	1	3	6	5	3	..
5	..	..	..	5	3	4	3	8	6	3	2	..
2	..	1	..	..	1	..	..	..	1	..	..	..
1	..	..	..	..	..	..	2	4	1	..	..	..
36	29	49	52	47	129	145	185	220	192	80	18	34

Deaths of Females, by Age and Cause of Death,

Cause of Death.	All Ages.	0	1	2	3	4
Diseases of Respiratory System.						
Croup	304	26	92	65	51	28
Laryngitis	38	8	10	5	6	2
Emphysema, asthma	49	..	..	..	..	..
Bronchitis	824	385	139	38	15	11
Chronic bronchitis	223	4	1	1	1	..
Pneumonia	2,478	598	362	120	76	47
Pleurisy	52	6	3	..	..	..
Hydrothorax, empyema	28	3	6	6	..	1
Congestion of lungs	57	19	3	..	1	..
Hemorrhage of lungs	14	1	..	..	..	..
Other diseases respiratory system	16	1	..	..	..	1
Total diseases of respiratory system	4,083	1,051	616	235	150	90
Diseases of Digestive System.						
Stomatitis	10	3	2	1	..	2
Dentition	79	39	35	3	2	..
Tonsilitis, quinsy	7	1	1	..	1	1
Gastritis	136	23	5	1	2	1
Gastro-enteritis	441	318	61	15	3	1
Ulcer of stomach	40	2	..	..	..	..
Enteritis	109	61	17	2	1	1
Ulcer of intestine, chronic diarrhœa	42	1	1	..	..	..
Ileus, obstruction of intestine	64	15	1	..	..	1
Stricture or strangulation of intestine	1	..	..	..	..	..
Intussusception of intestine	1	..	..	..	..	..
Typhlitis, perityphlitis, perforation of vermiform appendix	51	..	..	..	..	1
Hernia	38	1	..	..	..	..
Peritonitis	141	6	..	1	2	1
Hepatitis	31	1	..	1	..	..
Cirrhosis	134	..	..	..	..	..
Jaundice	19	9	..	..	1	..
Gall-stones, biliary colic, etc	14	..	..	..	..	..
Other diseases of liver	30	1	..	..	1	..
Other diseases of digestive system	85	37	7	2	1	..
Total diseases of digestive system	1,473	518	130	26	14	9

Year ending December 31, 1892—(Continued).

Total Under 5.	5	10	15	20	25	35	45	55	65	75	85	Colored.
262	41	..	..	..	..	1	..	..	..	..	..	3
31	4	..	..	..	2	..	1	..	..	..	..	..
..	..	..	..	1	2	5	11	9	16	5	..	3
588	10	2	5	5	22	20	35	44	45	29	19	26
7	..	1	1	3	10	8	24	56	59	39	15	5
1,203	72	30	53	69	208	170	185	222	170	77	19	65
9	..	..	3	2	8	10	9	7	3	..	1	1
16	1	..	1	2	4	2	..	1	1	..	..	..
23	1	..	3	2	4	4	6	4	9	1	..	1
1	..	..	1	..	3	2	5	1	1	..	..	..
2	2	..	..	1	2	1	4	..	1	3	..	..
2,142	131	33	67	85	265	223	280	344	305	154	54	104
8	1	..	..	..	1	..	..	..	..	..	..	..
79	..	..	..	..	..	..	..	..	..	..	..	5
4	2	1	..	..	..	..	..	..	..	..	..	..
32	5	2	4	2	18	13	21	19	13	5	2	1
398	3	2	1	2	3	7	7	5	7	3	3	5
2	..	1	3	3	8	4	8	5	5	1	..	1
82	2	3	1	1	4	..	4	1	7	2	2	3
2	..	..	..	..	1	2	7	10	8	8	4	1
17	3	2	3	2	5	7	9	5	8	1	2	2
..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	1	..	..	..
1	3	6	7	9	10	3	3	4	3	2	..	..
1	..	..	..	..	2	4	12	10	6	2	1	..
10	9	7	10	26	27	20	12	8	10	2	..	5
2	..	..	..	..	2	4	8	7	7	1	..	..
..	..	..	..	4	13	41	41	23	9	3	..	..
10	..	..	..	..	1	1	2	3	2	..	..	..
..	..	..	..	..	..	2	6	2	2	1	1	2
2	..	1	1	1	7	5	5	4	4	..	..	1
47	2	1	1	4	4	6	4	7	6	2	1	4
697	30	26	31	54	106	119	149	114	98	33	10	30

Deaths of Females, by Age and Cause of Death,

Cause of Death.	All Ages.	0	1	2	3	4
Diseases of Lymphatic System and Ductless Glands.						
Lymphadenoma (Hodgkin's disease)	3	..	1	..	..	..
Exophthalmic goitre (Basedow's disease)	4	..	..	..	..	..
Addison's disease	1	..	..	..	..	..
Other diseases of lymphatic system	2	..	..	1	1	..
Total diseases of lymphatic system	10	..	1	1	1	..
Diseases of the Urinary System.						
Acute nephritis	175	8	2	6	6	1
Bright's disease, albuminuria	913	3	1	4	2	2
Uræmia, suppression of urine	31	1	1	2	1	1
Calculus	2	..	..	..	..	..
Diseases of bladder and prostate gland	11	..	..	..	..	..
Other diseases of urinary system	5	..	..	..	..	..
Total diseases of urinary system	1,137	12	4	12	9	4
Diseases of Organs of Generation.						
Ovarian diseases	64	..	..	..	..	..
Diseases of uterus and vagina	95	..	..	..	..	..
Pelvic abscess	7	..	..	..	..	..
Perineal abscess	1	..	..	..	..	..
Other diseases of organs of generation	4	..	..	1	..	..
Total diseases of organs of generation	171	..	..	1	..	..
Diseases of Parturition.						
Abortion, miscarriage	30	..	..	..	..	..
Puerperal convulsions	57	..	..	..	..	..
Puerperal mania	1	..	..	..	..	..
Placenta prævia, flooding	16	..	..	..	..	..
Post-partum hemorrhage	15	..	..	..	..	..
Other diseases of parturition	21	..	..	..	..	..
Total diseases of parturition	140	..	..	..	..	..

Year ending December 31, 1892—(Continued).

Total Under 5.	5	10	15	20	25	35	45	55	65	75	85	Colored.
1	..	..	..	..	..	..	1	1	..	..	..	..
..	..	..	..	1	1	1	1	..	..	..	..	..
..	..	..	..	1	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	2	1	1	2	1	..	..	..	..
23	9	4	6	13	32	23	24	21	13	6	1	3
12	6	10	25	36	133	177	183	169	115	38	9	38
6	..	..	1	6	4	6	..	3	3	1	1	1
..	..	..	..	..	..	..	1	..	1	..	..	..
..	..	..	..	1	..	1	1	2	4	2	..	..
..	..	..	..	..	2	2	..	..	1	..	..	..
41	15	14	32	56	171	209	209	195	137	47	11	42
..	..	..	1	6	20	19	8	5	4	..	1	3
..	..	..	1	15	23	29	18	5	3	1	..	2
..	..	..	..	2	3	1	..	..	1	..	..	..
..	..	..	..	1	..	..	..	..	..	..	..	1
1	..	..	..	..	1	2	..	..	..	..	..	..
1	..	..	2	24	47	51	26	10	8	1	1	6
..	..	..	2	6	17	5	..	..	..	..	..	2
..	..	..	5	14	28	10	..	..	..	..	..	1
..	..	..	..	..	1	..	..	..	..	..	..	..
..	..	..	..	1	7	8	..	..	..	..	..	..
..	..	..	..	3	9	3	..	..	..	..	..	..
..	..	..	1	1	12	7	..	..	..	..	..	..
..	..	..	8	25	74	33	..	..	..	..	..	3

Deaths of Females, by Age and Cause of Death,

Cause of Death.	All Ages.	0	1	2	3	4
Diseases of Organs of Locomotion.						
Caries, necrosis	7	..	..	1	..	..
Arthritis, ostitis, periostitis	15	2	..	..	..	..
Spinal disease	14	..	1	..	..	1
Hip disease	6	1	..	..	..	..
Other diseases of locomotory system	6	1	..	..	..	..
Total diseases of organs of locomotion	48	4	1	1	..	1
Diseases of the Integumentary System.						
Carbuncle	5	1	..	..	..	..
Phlegmon, cellulitis	2	1	..	..	..	..
Ulcer, bedsore	6	..	..	..	..	..
Eczema	3	3	..	..	..	..
Pemphigus	2	1	..	..	..	1
Other diseases of integumentary system	27	9	..	1	..	2
Total diseases of integumentary system	45	15	..	1	..	3
Total local diseases	9,918	2,022	887	327	208	137
VII.—Violence.						
Accident and Negligence.						
Fractures, contusions	154	3	8	8	6	5
Wounds	18	1	..	..	..	..
Burn, scald	101	2	7	6	8	7
Poison	26	3	3	4	1	1
Drowning	21	1	3	..	..	1
Suffocation	35	11	..	..	..	..
Sunstroke	94	9	1	..	1	..
Surgical operations	98	2	1	..	1	..
Neglect, exposure	5	5	..	..	..	..
Other forms	2	..	..	..	..	..
Total accident and negligence	554	37	23	18	17	14
Homicide.						
Blows	3	..	..	..	..	..
Cut, stab	1	..	..	..	..	..

Year ending December 31, 1892—(Continued).

Total Under 5.	5	10	15	20	25	35	45	55	65	75	85	Colored.
1	1	..	1	1	..	1	..	1	1	..	..	..
2	3	2	..	..	2	..	3	1	2	..	..	1
2	3	4	1	..	3	..	..	..	1	..	..	1
1	3	1	1	..	..	..	..	..	..	..	..	..
1	..	..	1	2	..	..	..	1	1	..	..	..
7	10	7	4	3	5	1	3	3	5	..	..	2
1	..	..	..	..	..	..	1	3	..	..	..	..
1	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	1	1	..	..	1	2	1	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	1	1	4	4	4	1	..	..	..
19	..	..	..	2	2	4	5	8	4	1	..	..
3,581	260	147	214	326	873	893	1,052	1,107	915	417	133	254
30	21	7	..	5	9	18	26	22	11	3	2	1
1	1	1	..	1	1	4	2	3	2	2	..	..
30	12	1	3	5	19	5	11	10	5	..	..	..
12	..	..	4	1	3	3	2	1	..	..	..	..
5	2	2	..	2	3	2	4	1	1	..	..	..
11	1	3	3	3	5	5	..	1	3	..	..	..
11	1	..	2	6	11	21	16	19	5	1	1	2
4	..	3	5	8	26	23	18	7	4	..	..	5
5	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	1	..	..	..	..	..	..	..	..	..
109	38	17	18	31	77	81	79	64	31	6	3	8
..	..	..	..	..	2	1	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	1	..	..

Deaths of Females, by Age and Cause of Death,

Cause of Death.	All Ages.	0	1	2	3	4
Gunshot	4	..	..	..	..	..
Other methods	1	..	..	..	..	..
Total homicides	9	..	..	..	..	..
Suicide.						
Illuminating gas	2	..	..	..	..	..
Cut, stab	1	..	..	..	..	..
Drowning	1	..	..	..	..	..
Hanging	6	..	..	..	..	..
Leaps	9	..	..	..	..	..
Poison	18	..	..	..	..	..
Other methods	2	..	..	..	..	..
Total suicides	39	..	..	..	..	..
Total violence	602	37	23	18	17	14
VIII.—Ill-defined or Not Specified Causes.						
Debility, marasmus, inanition	686	648	30	2	2	1
Injury at birth	64	64	..	..	..	..
Other ill-defined causes	2	..	..	..	..	..
Total ill-defined causes	752	712	30	2	2	1
I.—Specific febrile diseases	4,636	1,637	690	387	270	183
II.—Parasitic diseases	6	6	..	..	..	..
III.—Dietetic diseases	79	..	1	..	..	..
IV.—Constitutional diseases	3,393	213	108	56	31	17
V.—Developmental diseases	899	547	1	1	..	..
VI.—Local diseases	9,918	2,022	887	327	208	137
VII.—Violence	602	37	23	18	17	14
VIII.—Ill-defined causes	752	712	30	2	2	1
Total, all causes	20,285	5,174	1,740	791	528	352

Year ending December 31, 1892—(Continued).

Total Under 5.	5	10	15	20	25	35	45	55	65	75	85	Colored.
..	..	..	1	1	..	1	1	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..
..	..	..	1	1	2	3	1	..	..	1	..	1
..	..	1	..	..	..	1	..	..	..	..	..	..
..	..	..	..	1	..	..	..	..	..	..	..	..
..	..	..	..	..	1	..	..	..	..	..	..	..
..	..	..	..	1	1	1	1	..	2	..	..	..
..	..	..	..	2	2	3	1	1	..	..	..	..
..	..	..	3	2	7	1	3	1	1	..	..	..
..	..	..	..	..	..	1	1	..	..	..	..	..
..	..	1	3	6	11	7	6	2	3	..	..	..
109	38	18	22	38	90	91	86	66	34	7	3	9
683	1	1	..	..	..	..	..	..	1	..	..	19
64	..	..	..	..	..	..	..	..	..	..	..	1
..	..	1	..	1	..	..	..	..	..	..	..	..
747	1	2	..	1	..	..	..	..	1	..	..	20
3,167	335	46	72	152	287	151	105	133	108	62	18	63
6	..	..	..	..	..	..	..	..	..	..	..	1
1	1	..	..	8	21	23	14	9	2	..	..	..
425	65	55	128	325	763	578	440	304	184	56	10	114
549	2	..	..	..	..	..	7	13	88	144	96	17
3,581	260	147	214	326	873	893	1,052	1,107	915	417	133	254
109	38	18	22	38	90	91	86	66	34	7	3	9
747	1	2	..	1	..	..	..	..	1	..	..	20
8,585	702	268	496	850	2,034	1,736	1,704	1,632	1,332	686	260	478

Actual Mortality from the Principal Causes, by Months,

Estimated population, July 1, 1892. 1,827,396.

Meteorology. Mean barometer	29.917	30.026	29.860	29.958
Mean humidity	54	68	75	60
Maximum humidity	99	99	99	100
Minimum humidity	46	36	30	30
Inches of rain	4.69	0.94	3.49	2.02
Mean temperature (Fahr.)	31.49	33.44	34.16	48.84
Maximum temperature (Fahr.)	59	50	56	80
Minimum temperature (Fahr.)	9	14	17	31
Causes of Death.	**January.**	**February.**	**March.**	**April.**
Total, all causes	3,908	3,596	3,954	4,059
Cerebro-spinal meningitis	15	8	30	27
Diphtheria	153	114	140	155
Typhoid fever	15	25	17	19
Typhus fever	....	8	21	3
Erysipelas	16	27	32	19
Malarial fevers	8	10	15	11
Measles	50	47	77	119
Scarlatina	145	134	138	132
Small-pox	1	6	3	9
Whooping-cough	22	16	21	33
Cholera, Asiatic	....	....	....	....
Cholera morbus	....	1	....	2
Other diarrhœal diseases	46	44	60	73
Diarrhœal diseases under 5 years	37	31	43	55
Other zymotic diseases	288	116	64	48
Cancer	76	83	90	82
Rheumatism	8	13	14	21
Phthisis	468	415	511	516
Other constitutional diseases	93	125	92	127
Apoplexy	89	92	124	102
Convulsions	43	46	52	53
Meningitis and encephalitis	67	78	99	91
*Other diseases of nervous system	94	82	97	87

* Sunstroke not included in diseases of the nervous system.

th Ages of Decedents and Meteorology, for the Year 1892.

ıth-rate per 1,000 inhabitants, 24.26.

29.895	29.889	29.941	29.891	30.032	29.843	29.914	29.927	29.924
72	79	76	71	68	60	60	71	67
98	97	98	97	98	98	99	99	100
30	45	39	44	36	34	30	47	30
4.22	2.78	3.21	4.16	1.06	0.59	7.14	1.30	35.60
59.15	73.54	74.93	74.26	64.65	53.03	43.39	32.22	51.87
81	95	97	95	84	76	67	58	97
42	58	57	60	49	37	25	10	9
MAY.	JUNE.	JULY.	AUGUST.	SEPTEMBER.	OCTOBER.	NOVEMBER.	DECEMBER.	YEAR.
3,912	3,544	5,544	3,510	3,127	3,032	2,927	3,216	44,389
30	23	27	20	15	12	14	9	230
140	90	106	76	83	90	134	157	1,436
23	23	52	53	57	55	31	30	400
3	5	....	....	....	....	....	5	45
21	14	8	6	11	6	15	14	189
12	16	17	12	21	13	16	10	161
168	160	98	32	25	11	25	52	864
144	92	33	20	24	27	36	52	977
9	8	7	14	5	10	7	2	81
26	25	52	58	31	32	29	26	371
....	....	....	....	9	....	....	....	9
3	8	47	20	7	5	....	1	94
59	368	1,588	655	332	154	69	51	3,499
50	352	1,501	581	296	129	52	35	3,162
26	12	18	9	7	19	23	17	647
82	81	87	85	84	86	83	77	996
10	16	9	4	11	11	11	10	138
451	363	407	362	389	360	364	427	5,033
124	117	118	117	92	106	84	82	1,277
96	87	121	74	81	97	114	117	1,194
53	60	53	29	36	24	28	34	511
113	88	127	92	74	74	50	67	1,020
74	82	96	70	54	59	54	81	930

Actual Mortality from the Principal Causes, by Months, with Ages

Causes of Death.	January.	February.	March.	April.
Aneurism	5	4	3	7
Heart disease	208	222	232	244
Other diseases of circulatory system	3	12	14	15
Bronchitis	221	179	206	195
Croup	61	68	62	76
Pneumonia	648	609	685	691
Other diseases of respiratory system	113	84	94	91
Gastritis, gastro-enteritis, enteritis and peritonitis	81	79	99	86
Cirrhosis of liver and hepatitis	43	36	39	42
Other diseases of digestive system	92	70	74	90
Bright's disease and nephritis	211	205	209	231
Premature and preternatural births, cyanosis and atelectasis	128	92	93	105
Puerperal diseases	52	51	51	51
Old age	54	63	41	46
Alcoholism	22	22	20	26
Sunstroke	....	....	....	....
Accident	104	120	104	117
Homicide	1	6	4	1
Suicide	14	17	14	21
Under one month	251	221	234	228
One month and under one year	512	532	579	643
Total under five years	1,400	1,370	1,501	1,592
Sixty-five years and over	512	405	390	400
Males	2,091	1,889	2,122	2,234
Females	1,817	1,707	1,832	1,825
Colored	76	82	71	109

Decedents and Meteorology, for the Year 1892– (Continued).

MAY.	JUNE.	JULY.	AUGUST.	SEPTEMBER.	OCTOBER.	NOVEMBER.	DECEMBER.	YEAR.
5	5	4	3	9	2	6	3	56
184	182	191	150	144	186	177	210	2,330
7	3	8	6	10	16	9	16	119
185	125	106	57	107	104	132	137	1,754
63	31	52	30	42	68	57	60	670
711	385	301	255	254	340	464	498	5,841
86	67	90	54	59	71	77	90	976
86	142	415	194	175	116	67	70	1,610
29	31	36	33	34	39	39	29	430
83	96	102	104	89	60	64	60	984
218	157	211	186	180	189	191	207	2,395
101	86	118	87	98	90	88	112	1,198
38	33	30	19	26	25	17	24	417
52	42	38	40	52	40	36	50	554
20	20	44	38	33	52	39	31	367
....	29	252	39	....	....	....	....	320
159	160	409	191	138	152	113	133	1,900
5	2	4	3	3	2	4	3	38
27	23	24	30	20	15	17	19	241
224	243	333	256	224	190	195	215	2,814
598	868	1,998	865	672	510	387	418	8,582
1,647	1,749	3,168	1,695	1,350	1,153	975	1,084	18,684
328	270	374	289	301	300	323	380	4,272
2,135	1,933	2,980	1,944	1,699	1,648	1,606	1,763	24,044
1,777	1,611	2,564	1,566	1,428	1,384	1,321	1,453	20,285
91	74	121	69	71	61	61	81	967

Weekly Mortality from the Principal Causes of Death, with

Representing, not the actual mortality,

Meteorology.	Mean barometer ..	29.820	29.699	30.192	30.069	29.723	29.940	29.625	30.165	30.292	29.942	29.580	29.949
	Mean humidity ...	65	57	60	55	44	51	53	69	92	88	83	82
	Maximum humidity.....	76	67	79	87	61	68	80	100	100	100	100	100
	Minimum humidity.....	37	41	39	32	20	28	28	39	71	46	54	67
	Inches of rain.....	1.02	.44	2.39	.85	.01	.09	.07	.37	.32	1.33	.66	1.07
	Mean temperature	45.4	29.0	35.0	29.5	29.3	32.8	32.4	31.2	38.4	31.2	37.7	26.1
	Maximum temp. (Fah.).	50.6	40	59	50	47	44	50	46	48	42	51	36
	Minimum temp. (Fah.).	40	19	19	10	9	14	14	15	25	20	23	17

Cause of Death.	2 days ending January 2.	Week Ending— Jan. 9.	Jan. 16.	Jan. 23.	Jan. 30.	Feb. 6.	Feb. 13.	Feb. 20.	Feb. 27.	Mar. 5.	Mar. 12.	Mar. 19.
Total, all causes	215	972	907	866	862	790	806	908	910	920	919	885
Cerebro-spinal meningitis.....	..	3	3	3	5	3	3	..	2	7	3	6
Diphtheria	9	39	39	34	33	18	27	26	31	35	30	28
Enteric fever	2	3	4	5	3	4	6	2	12	3	..	6
Erysipelas.....	1	5	4	6	1	4	3	10	6	8	8	9
Malarial fevers.....	..	1	3	2	1	4	2	4	1	1	2	3
Measles	5	16	12	8	7	16	9	13	10	14	18	24
Scarlatina	3	34	41	35	28	24	30	39	29	37	34	25
Small-pox	..	..	..	..	..	1	1	2	3	1	..	2
Typhus fever	..	..	..	..	..	..	..	2	4	2	8	13
Whooping-cough... ..	..	8	7	1	3	7	4	6	1	4	8	3
Yellow fever.....	..	..	..	..	..	1	..	..	..	..	..	..
Cholera, Asiatic.....	..	..	..	..	..	..	..	..	..	..	..	..
Cholera morbus.....	..	1	..	..	..	..	1	..	..	..	..	..
Other diarrhœal diseases.	3	14	11	7	9	11	13	13	9	10	9	19
Diarrhœal diseases under 5 years....	2	12	6	6	8	10	9	9	6	8	8	9
Other zymotic diseases	22	90	69	68	46	40	28	27	21	18	20	11
Cancer	2	16	19	22	16	15	19	22	18	20	27	14
Rheumatism.....	..	1	..	5	1	4	3	3	2	5	6	..
Phthisis	19	110	110	99	120	79	77	129	110	103	103	135
Other constitutional diseases	5	18	25	17	27	21	29	34	32	21	19	14
Apoplexy.....	3	16	13	25	25	27	21	27	19	22	36	27
Convulsions.....	4	9	13	9	8	6	17	9	10	20	5	11

Ages of Decedents, Death-rate and Meteorology for the Year 1892.

but the reported mortality for the year.

30.036	30.034	29.775	29.829	29.988	30.132	29.946	29.999	29.906	29.687	30.075	29.956	29.944	29.728	29.856
68	57	63	53	65	59	69	72	74	71	80	79	80	77	84
89	82	83	80	86	80	89	93	92	92	94	94	95	100	100
38	34	40	34	41	41	44	45	45	48	72	59	60	55	61
.11	.41	.15	.77	.94	.16	.31	.95	1.68	1.15	.15	1.34	.69	.28	.75
37.9	43.8	59.5	39.8	48.1	49.1	59.4	57.0	59.2	59.9	70.9	69.4	76.4	76.7	72.1
56	61	80	52	61	61	81	71	78	80	88	83	95	91	85
19	30	33	31	36	32	44	42	46	45	56	58	62	61	61

Week Ending—

Mar. 26.	Apr. 2.	Apr. 9.	Apr. 16.	Apr. 23.	Apr. 30.	May 7.	May 14.	May 21.	May 28.	June 4.	June 11.	June 18.	June 25.	July 2.
872	874	983	937	899	950	1,002	897	854	845	868	767	863	815	845
9	6	7	7	5	6	7	7	8	4	7	6	6	5	5
30	35	29	38	36	33	45	20	35	35	23	26	18	25	17
4	5	5	4	2	6	7	2	6	8	2	7	5	3	10
7	7	3	4	7	2	6	2	4	6	4	4	7	3	..
4	5	1	4	2	4	1	2	4	1	5	2	4	5	4
15	12	32	27	23	25	47	36	38	36	38	54	37	25	28
31	32	36	38	26	26	46	26	27	33	26	21	30	19	14
..	..	..	1	3	5	1	2	1	3	4	..	4	2	..
..	..	2	..	..	..	4	..	..	..	..	1	2	1	1
5	2	7	8	7	10	10	7	7	1	2	4	4	13	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	1	..	..	..	2	2	1	..	3	3
12	13	14	15	15	20	21	18	10	15	11	31	64	104	176
9	9	11	13	9	16	14	17	8	13	12	29	59	100	169
12	14	12	16	7	7	12	6	7	4	4	1	2	6	3
21	22	25	16	18	18	16	26	15	17	24	18	21	14	17
1	5	2	5	6	4	4	2	4	..	4	6	5	1	3
105	120	128	112	124	121	108	102	93	111	101	80	81	86	85
28	26	35	29	27	28	31	30	24	24	32	21	21	37	29
24	25	23	22	25	27	17	21	23	23	24	16	25	15	25
11	11	14	11	13	14	11	12	10	12	22	12	12	13	11

Weekly Mortality from the Principal Causes of Death, with Ages

Representing, not the actual mortality,

METEOROLOGY.												
Mean barometer..	29.095	29.864	29.948	29.864	29.857	29.851	29.958	29.905	29.995	30.098	29.969	30.113
Mean humidity ...	76	77	75	76	73	72	68	74	69	66	71	75
Maximum humidity.....	100	90	95	95	90	87	85	90	86	83	90	94
Minimum humidity	54	62	53	50	49	55	47	47	46	41	49	53
Inches of rain.....	2.09	..	2.30	.25	.34	1.92	..	.81	.11	.16	.85	.05
Mean temperature	70.9	78 4	72.6	83.7	74.0	78.3	76.0	71.9	66.8	65.3	66.5	66.3
Maximum temp. (Fah.).....	88	92	89	97	88	95	89	83	81	84	77	81
Minimum temp. (Fah.,.....	59	60	57	71	66	65	62	61	52	52	55	52

CAUSE OF DEATH.	WEEK ENDING—											
	July 9.	July 16.	July 23.	July 30.	Aug. 6.	Aug. 13.	Aug. 20.	Aug. 27.	Sept. 3.	Sept. 10.	Sept. 17.	Sept. 24.
Total, all causes.....	1,032	1,336	1,081	1,434	1,181	853	789	725	718	731	758	744
Cerebro-spinal meningitis.....	5	13	4	2	7	6	2	4	5	3	6	1
Diphtheria	20	21	30	27	24	17	13	16	18	17	18	26
Enteric fever	8	8	14	17	9	12	10	14	15	11	9	19
Erysipelas.....	2	2	2	1	1	2	2	1	1	4	2	3
Malarial fevers	1	4	4	7	3	1	6	2	2	5	5	8
Measles	23	23	21	22	15	7	6	8	8	12	2	2
Scarlatina	7	8	7	8	3	10	2	4	4	3	5	7
Small-pox	2	..	4	1	..	7	4	1	3	..	2	2
Typhus fever	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	11	16	11	11	16	6	14	14	12	10	7	9
Yellow fever..... ..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera, Asiatic	..	..	..	..	..	..	..	..	..	2	4	2
Cholera morbus	5	12	8	10	20	7	..	4	1	3	2	2
Other diarrhœal diseases.....	300	454	328	381	246	184	133	128	96	87	92	64
Diarrhœal diseases under 5 years....	289	438	310	3 4	226	164	114	110	86	78	82	59
Other zymotic diseases	2	2	6	6	1	5	2	1	1	2	2	1
Cancer.....	14	16	20	29	17	17	25	19	16	24	23	16
Rheumatism.....	1	1	1	4	2	1	1	..	2	3	4	..
Phthisis.....	95	104	80	95	72	85	85	82	92	90	90	90
Other constitutional diseases	18	36	22	32	23	25	32	26	26	29	17	18
Apoplexy	21	24	23	28	39	15	12	15	17	14	28	19
Convulsions	7	14	11	10	10	7	8	4	4	10	10	8

of Decedents, Death-rate and Meteorology for the Year 1892—(Continued).

but the reported mortality for the year.

29.915	29.724	29.998	29.903	29.683	29.864	29.965	29.856	29.937	29.882	29.874	30.101	29.859	29.949	....
62	61	69	64	50	56	52	61	50	82	75	73	74	64	....
84	93	93	87	86	79	82	81	100	100	93	90	100	87	....
37	38	36	40	27	37	26	30	30	47	50	49	44	44	....
..	.25	.21	.07	.06	.29	2.09	3.65	.04	1.07	.47	.56	.26	.01	....
63.0	52.9	56.6	56.3	48.2	49.5	44.4	51.6	34.5	36.5	40.2	38.0	28.2	21.8	....
81	69	76	69	59	67	63	63	46	46	58	45	41	32	....
47	37	41	45	39	34	32	36	25	28	30	30	10	12	....

Week Ending—														
Oct. 1.	Oct. 8.	Oct. 15.	Oct. 22.	Oct. 29.	Nov. 5.	Nov. 12.	Nov. 19.	Nov. 26.	Dec. 3.	Dec. 10.	Dec. 17.	Dec. 24.	Dec. 31.	Year.
689	659	738	665	631	738	620	677	673	735	695	727	705	752	44,317
3	5	3	4	1	2	6	3	3	..	2	3	2	2	230
17	23	14	17	20	30	31	39	29	26	27	34	31	49	1,428
13	6	15	15	14	7	11	7	8	6	1	7	7	12	401
2	1	1	1	2	3	2	1	8	2	3	2	4	4	190
2	2	3	1	4	8	2	4	2	3	4	3	2	1	161
7	2	1	3	4	3	4	7	7	5	15	16	8	12	868
7	4	6	6	7	10	4	10	9	10	16	14	10	8	979
..	1	4	..	2	6	1	..	2	1	1	..	..	1	81
..	..	..	..	..	..	..	..	..	..	1	2	1	..	44
4	8	7	10	5	8	6	7	6	5	7	8	5	3	369
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
1	..	..	..	..	..	..	..	..	..	..	..	..	..	9
..	3	..	..	2	..	..	..	..	..	..	1	..	..	95
64	54	46	29	19	20	15	14	12	20	4	8	21	11	3,497
54	45	38	23	18	14	15	9	10	13	4	4	16	6	3,160
2	2	3	12	1	5	4	6	7	2	5	4	2	2	661
20	11	22	19	22	24	15	17	21	19	14	22	22	17	999
4	2	3	1	3	3	3	1	2	5	4	2	1	2	138
84	75	98	67	75	95	78	80	88	89	84	106	105	94	5,029
20	24	22	35	19	11	15	23	16	26	18	21	22	14	1,274
18	20	19	28	20	26	33	21	20	28	30	37	16	24	1,191
7	5	6	5	3	10	3	8	6	10	3	7	11	7	510

Weekly Mortality from the Principal Causes of Death, with Ages of

Cause of Death.	2 days ending January 2.	Week Ending— Jan. 9.	Jan. 16.	Jan. 23.	Jan. 30.	Feb. 6.	Feb. 13.	Feb. 20.	Feb. 27.	Mar. 5.	Mar. 12.	Mar. 19.
Meningitis and encephalitis	6	14	14	17	20	11	16	17	19	23	26	30
Other diseases of nervous system	8	23	26	19	18	25	15	11	27	20	25	15
Aneurism	..	1	..	2	2	..	3	..	1	1	1	1
Heart diseases	9	54	31	51	51	53	42	63	53	54	63	52
Other diseases of circulatory system	..	1	1	..	..	1	7	1	3	2	7	1
Bronchitis	11	56	46	55	46	49	42	39	48	39	53	43
Croup	4	14	11	19	12	12	21	17	15	13	24	15
Pneumonia	41	165	157	132	142	113	134	143	170	185	151	143
Other diseases of respiratory system	5	27	30	23	23	20	14	25	19	22	21	20
Gastritis, gastro-enteritis, enteritis and peritonitis	4	19	25	13	12	22	20	17	17	24	25	23
Cirrhosis of liver and hepatitis	2	8	7	13	11	15	5	8	7	10	8	13
Other diseases of digestive system	9	20	22	20	17	18	17	16	22	17	17	20
Bright's disease and nephritis	8	48	38	45	57	56	46	57	48	53	40	47
Premature and preternatural births, cyanosis and atelectasis	5	31	38	23	30	20	25	16	25	24	21	18
Puerperal diseases	6	11	10	13	12	10	10	13	16	15	11	7
Old age	5	10	10	14	17	11	14	10	20	15	9	10
Alcoholism	..	10	5	4	4	3	5	7	7	2	4	2
Sunstroke	..	..	..	..	..	..	..	..	..	..	..	..
Accident	8	31	25	18	19	24	35	32	23	26	26	23
Homicide	..	..	..	1	..	1	3	2	..	..	2	..
Suicide	1	4	5	1	1	7	3	4	4	4	4	2
Under one month	8	66	66	58	50	45	53	49	59	56	52	47
One month and under 1 year	30	126	112	104	116	122	121	118	137	140	150	121
Total under 5 years	71	330	339	299	325	290	326	322	346	350	357	329
65 years and over	40	143	118	111	98	104	93	107	98	89	92	86
Males	105	506	507	448	480	431	411	459	501	478	471	484
Females	110	466	400	418	382	359	395	449	409	442	448	401
Colored	3	16	18	20	19	14	22	23	21	14	17	15
Death-rate	23.00	29.70	27.70	26.43	26.29	24.08	24.56	27.65	27.70	27.98	27.94	26.89

Decedents, Death-rate and Meteorology for the Year 1892—(Continued).

Week Ending—														
Mar. 26.	Apr. 2.	Apr. 9.	Apr. 16.	Apr. 23.	Apr. 30.	May 7.	May 14.	May 21.	May 28.	June 4.	June 11.	June 18.	June 25.	July 2.
25	14	23	24	12	24	21	24	26	28	26	19	26	23	14
29	20	24	18	21	17	19	19	23	14	13	23	24	18	10
..	..	1	1	1	2	2	..	2	1	3	..	1	1	2
52	44	53	57	58	65	47	46	37	40	37	48	47	33	44
2	4	4	4	1	4	1	3	1	2	2	1	..	1	..
47	43	47	39	45	53	48	39	51	32	37	33	32	20	27
5	14	15	26	17	18	16	12	11	15	10	9	13	4	4
148	164	163	163	158	153	201	188	148	137	120	109	106	82	52
22	27	21	17	21	24	18	20	20	16	30	18	17	12	8
20	20	23	17	12	26	20	12	23	20	32	21	29	38	45
7	7	14	8	9	9	3	7	7	7	10	9	5	8	5
17	11	23	20	26	16	21	20	23	13	17	14	25	25	28
49	45	39	59	55	56	53	54	47	50	50	31	45	35	33
26	17	29	25	28	17	29	23	19	23	19	24	22	16	19
14	11	13	11	8	16	12	5	8	8	10	7	7	6	11
13	6	12	5	11	17	4	12	14	11	17	8	13	9	7
3	9	8	8	3	7	6	4	5	4	7	4	2	2	5
..	..	..	..	..	..	..	..	..	..	2	3	16	6	2
17	26	32	24	22	29	45	31	36	38	30	33	48	43	25
1	1	1	..	..	..	1	3	..	..	2	..	..	..	1
4	4	8	5	2	4	5	6	4	7	9	7	5	6	2
62	48	57	51	52	51	55	50	46	55	47	49	57	60	65
129	130	169	127	144	156	146	122	136	136	155	134	199	224	263
347	322	399	370	350	368	410	356	360	362	374	344	413	431	457
79	93	98	79	98	100	87	82	81	61	66	60	78	51	67
478	480	528	526	496	518	557	487	473	440	503	422	446	455	445
394	394	455	411	403	432	445	410	381	405	365	345	417	360	400
13	23	22	20	30	28	17	26	25	19	15	18	11	22	19
26.48	26.52	29.82	28.40	27.24	27.28	28.76	25.73	24.48	24.20	24.85	21.94	24.67	23.28	24.13

Weekly Mortality from the Principal Causes of Death, with Ages of

Cause of Death.	Week Ending—											
	July 9.	July 16.	July 23.	July 30.	Aug. 6.	Aug. 13.	Aug. 20.	Aug. 27.	Sept. 3.	Sept. 10.	Sept. 17.	Sept. 24.
Meningitis and encephalitis	20	20	24	45	36	21	20	20	14	16	15	20
Other diseases of nervous system	8	20	20	26	33	13	16	13	19	16	10	11
Aneurism	..	1	2	1	..	1	2	..	1	1	4	2
Heart disease	40	31	40	58	46	33	43	30	24	30	37	36
Other diseases of circulatory system	1	1	..	5	3	2	..	2	..	2	4	2
Bronchitis	27	23	25	25	17	15	11	11	14	25	26	33
Croup	10	11	18	10	9	5	5	8	6	6	11	19
Pneumonia	67	71	60	68	73	55	63	51	56	53	62	63
Other diseases of respiratory system	18	23	17	21	16	13	7	14	17	11	11	14
Gastritis, gastro-enteritis, enteritis and peritonitis	73	122	70	117	56	51	48	29	41	38	61	34
Cirrhosis of liver and hepatitis	7	15	2	8	10	9	5	8	9	6	8	7
Other diseases of digestive system	16	29	28	20	21	25	21	19	26	19	20	22
Bright's disease and nephritis	39	49	40	53	57	44	43	38	41	44	41	34
Premature and preternatural births, cyanosis and atelectasis	29	31	24	27	15	14	28	15	21	24	20	29
Puerperal diseases	10	4	2	11	6	7	2	5	3	7	7	6
Old age	4	5	10	12	9	8	10	12	11	12	9	15
Alcoholism	7	7	8	19	12	5	9	11	6	3	5	11
Sunstroke	..	8	2	91	160	18	8	2	2	..	..	..
Accident	34	44	32	132	192	53	40	39	40	34	28	35
Homicide	2	..	..	2	..	..	..	..	3	1	..	..
Suicide	5	7	5	3	11	3	9	6	6	6	4	4
Under one month	67	79	68	92	66	62	62	46	50	53	54	58
One month and under 1 year	418	581	388	471	285	223	182	168	172	152	167	172
Total under 5 years	640	862	647	773	518	429	369	329	335	312	332	332
65 years and over	62	74	64	111	105	65	71	60	52	69	71	82
Males	561	722	576	788	630	473	432	404	403	394	413	404
Females	471	614	505	646	551	380	357	321	315	337	345	340
Colored	26	36	24	22	19	15	16	14	19	12	16	23
Death-rate	29.44	38.09	30.80	40.83	33.61	24.25	22.42	20.59	20.38	20.73	21.48	21.07

Decedents, Death-rate and Meteorology for the Year 1892—(Continued).

Week Ending –														
Oct. 1.	Oct. 8.	Oct. 15.	Oct. 22.	Oct. 29.	Nov. 5.	Nov. 12.	Nov. 19.	Nov. 26.	Dec. 3.	Dec. 10.	Dec. 17.	Dec. 24.	Dec. 31.	Year.
21	16	18	21	12	13	12	11	9	13	10	12	17	17	1,015
15	12	17	8	13	17	9	9	14	20	15	21	14	16	929
1	..	..	..	1	2	1	1	2	2	2	..	..	..	56
36	36	47	37	38	47	44	36	46	44	47	47	43	45	2,325
2	1	5	4	4	3	3	3	1	1	5	4	3	4	119
19	20	20	25	20	35	27	31	30	31	42	29	24	31	1,756
5	13	17	14	17	16	12	11	11	19	15	10	15	13	672
59	63	79	83	76	104	81	121	113	109	109	99	107	118	5,831
16	11	15	15	19	23	22	16	19	17	19	23	18	23	978
36	30	32	20	19	26	17	13	17	16	13	14	16	18	1,606
10	8	10	10	5	11	5	7	11	11	7	7	7	7	432
22	16	10	11	16	18	14	11	16	12	10	13	17	16	983
42	47	47	36	43	38	41	47	42	52	51	45	47	48	2,393
21	22	26	16	22	14	18	22	15	28	26	30	19	23	1,191
5	2	10	7	6	2	4	2	5	5	5	6	3	7	420
11	7	12	11	5	10	8	7	6	15	13	9	7	12	554
12	14	14	15	7	5	7	20	5	8	4	5	6	11	366
..	..	..	..		.	..	..	..	..	..	..	..	..	320
28	34	41	28	35	29	29	18	32	34	22	26	31	36	1,895
..	2	..	..	.		..	1	2	..	..	2	..	1	38
6	5	2	3	2	4	4	6	4	2	5	4	5	5	244
45	42	55	38	42	45	38	44	38	58	45	51	41	52	2,805
136	125	110	128	96	108	88	97	87	72	94	83	97	103	8,570
275	276	270	259	237	253	209	237	211	227	237	238	236	258	18,648
65	61	64	71	63	92	74	80	66	73	86	91	63	92	4,286
366	382	404	352	344	389	344	373	361	403	376	400	397	415	24,041
323	277	334	313	287	349	276	304	312	332	319	327	308	337	20,276
15	9	16	17	10	17	13	12	17	14	15	17	20	21	965
19.50	18.64	20.86	18.78	17.81	20.82	17.48	19.07	18.95	20.68	19.54	20.43	19.80	21.10	24.25

Actual Deaths from Zymotic and Certain other

Wards.	Area in Acres.	Cerebro-spinal Meningitis.	Diphtheria.	Typhoid Fever.	Erysipelas.	Malarial Fevers.	Measles.	Scarlet Fever.	Small-pox.	Typhus Fever.	Yellow Fever.	Influenza.
First	154	3	18	14	3	..	20	4	1	1	..	1
Second	81	..	1	..	..	..	..	..	..	..	..	..
Third	95	..	1	1	1	..	..	1	..	..	..	..
Fourth	83	5	8	6	4	2	11	8	..	3	..	8
Fifth	168	..	19	4	3	2	3	15	2	..	..	3
Sixth	86	4	26	6	2	3	13	13	2	3	..	7
Seventh	198	7	42	11	8	1	30	25	..	7	..	7
Eighth	183	2	28	6	6	3	11	37	20	..	..	19
Ninth	322	8	44	9	5	4	19	30	2	1	1	11
Tenth	110	3	37	12	4	1	17	30	3	14	..	13
Eleventh	196	7	47	18	10	6	36	62	1	..	..	15
Twelfth	5,504.13	52	256	64	29	47	144	164	7	..	..	86
Thirteenth	107	2	28	2	10	1	21	34	2	2	..	6
Fourteenth	96	4	17	8	6	2	27	10	5	..	..	13
Fifteenth	198	3	17	1	1	1	15	9	2	2	..	5
Sixteenth	348.77	8	45	10	4	5	15	23	1	..	..	25
Seventeenth	331	8	67	28	13	3	43	67	2	1	..	17
Eighteenth	449.89	11	66	15	7	8	17	35	..	..	..	27
Nineteenth	1,480.60	24	275	56	29	15	185	153	11	1	..	70
Twentieth	444	17	112	21	12	13	44	47	1	..	..	36
Twenty-first	411	8	39	30	9	8	19	31	..	..	..	26
Twenty-second	1,529.42	37	152	51	15	14	83	109	6	..	..	76
Twenty-third	4,267.023	15	82	19	6	18	86	57	9	9	..	12
Twenty-fourth	8,050.323	2	9	8	2	4	5	13	4	1	..	13
Total	24,893.156	230	1,436	400	189	161	864	977	81	45	1	496

The following wards contain large public institutions, viz.: First Ward—Emigrant Depot; Third Ward—Chambers Street Hospital; Seventh Ward—Gouverneur Hospital; Ninth Ward—St. Vincent's Hospital; Eleventh Ward—St. Francis' Hospital; Twelfth Ward—Ward's and Randall's Island Hospitals; Eighteenth Ward—New York, Post-Graduate and Willard Parker Hospitals; Nineteenth Ward—Presbyterian, German, Mount Sinai, Colored Home, Nursery and Child's and St. Luke's Hospitals, and Foundling Asylum and the Blackwell's Island institutions; Twenty-first Ward—Bellevue Hospital; Twenty-second Ward—Roosevelt and Sloane Maternity Hospitals; Twenty-third Ward—St. Joseph's Hospital and North Brother Island.

Preventable Diseases by Wards, for Year* 1892.

Whooping-cough.	Diarrhœal Diseases.	Asiatic Cholera.	Rheumatism.	Phthisis.	Bronchitis.	Croup.	Pneumonia.	Puerperal Diseases.	Alcoholism.	Bright's Disease and Nephritis.	All Causes.	In Institutions not Redistributed.	† In Institutions Redistributed.	Total in Institutions.	‡ All Deaths Redistributed.
5	42	..	2	92	30	2	90	3	10	38	606	89	154	243	563
..	..	..	..	2	..	..	3	..	1	1	22	..	4	4	24
..	1	..	..	10	1	1	12	2	4	7	103	53	8	61	54
5	65	..	2	120	53	13	163	5	12	57	845	4	216	220	916
1	28	..	1	54	15	9	43	1	7	24	410	4	79	83	442
3	42	..	4	122	64	11	118	2	5	39	738	11	171	182	791
14	153	..	4	184	60	22	298	9	14	104	1,677	40	305	345	1,782
17	114	..	6	152	70	19	152	10	13	54	1,172	3	192	195	1,272
14	125	..	10	191	42	25	221	11	11	104	1,589	93	238	331	1,629
20	131	..	1	153	47	21	229	17	9	62	1,407	..	417	417	1,532
25	191	..	2	217	84	45	315	18	8	82	2,006	39	216	255	2,141
73	665	1	24	730	284	124	913	78	36	333	7,255	679	699	1,378	7,159
11	98	..	2	84	33	28	185	9	3	33	1,041	..	170	170	1,133
1	79	..	3	103	118	30	167	12	5	43	1,072	..	172	172	1,167
2	33	..	1	90	32	13	79	2	13	45	639	8	162	170	687
6	76	..	7	171	51	17	163	13	16	98	1,357	30	212	242	1,444
23	206	1	6	365	99	47	340	28	22	124	2,642	28	492	520	2,845
7	128	1	7	231	67	23	196	17	26	113	1,765	114	315	429	1,797
43	590	2	15	724	185	78	819	62	31	368	6,826	1,785	655	2,440	5,489
35	210	1	10	325	112	36	317	25	26	188	2,660	44	405	449	2,848
16	111	..	5	245	47	16	234	15	64	146	1,973	240	298	538	1,886
45	326	3	20	458	170	61	586	46	25	221	4,417	115	523	640	4,683
12	159	..	4	163	74	25	160	27	6	88	1,683	160	110	270	1,658
3	29	..	2	47	16	4	38	6	..	23	424	68	25	93	387
371	3,602	9	138	5,033	1,754	670	5,841	418	367	2,395	44,329	3,607	6,240	9,84	44,329

* Deaths in institutions redistributed according to residence, where residence was known.

† This column contains the persons who died in institutions, but whose residence before admission to the institution was in the ward to which they are assigned in this table.

‡ In this column the 3,607 deaths in institutions, for which no previous or other residence was given in the certificate of death, have been distributed to the different wards in proportion to the number of deaths known to have been properly assigned to each ward.

Actual Deaths by Certain Diseases, According to Nativity of

Cause of Deaths, and Deaths in Institutions.	Place of Birth of Deceased.														
	Austro-Hungary.	Bohemia.	British America.	England.	France.	Germany.	Ireland.	Italy.	Poland.	Russia.	Scotland.	Switzerland.	United States.	Other Nationalities.	Unknown Nationality.
Total—All causes	368	248	201	825	252	4,373	6,740	795	114	745	272	147	27,513	721	1,015
Diphtheria	4	1	1	12	2	22	9	10	2	15	2	..	1,307	15	34
Measles	4	2	..	1	1	25	5	21	7	31	..	..	672	15	80
Scarlatina	10	2	..	4	1	26	14	8	4	15	4	2	865	12	10
Diarrhœal diseases	10	4	1	12	7	87	181	26	3	18	7	4	3,109	22	111
Cancer	15	14	8	37	11	273	254	25	2	35	10	8	274	27	3
Insanity	5	1	1	12	6	32	53	5	5	8	2	1	96	7	..
Heart diseases	43	19	19	66	27	503	529	53	9	61	21	13	893	60	15
Phthisis	62	54	42	142	49	598	1,132	155	14	129	41	35	2,410	159	11
Pneumonia	40	29	23	107	24	478	975	125	12	92	34	19	3,690	80	113
Cirrhosis of liver and hepatitis	1	4	2	17	5	105	139	9	..	4	2	..	131	11	..
Bright's disease and nephritis	22	30	22	88	19	404	736	36	7	29	20	12	908	46	16
Old age	5	9	5	18	6	108	236	7	..	9	11	..	131	8	1
Alcoholism	..	2	7	21	3	42	125	..	1	2	8	1	142	8	5
Sunstroke	1	5	1	7	3	63	127	5	2	1	6	2	71	10	15
Homicide	1	1	..	..	1	2	12	4	1	..	..	..	12	2	..
Suicide	3	6	2	5	3	104	17	3	4	7	..	..	60	17	10
Inanition, atrophy, marasmus, etc.	1	1	..	1	..	1	1	2	1	1	..	1	1,114	3	347
Other causes	141	64	67	275	84	1,500	2,195	301	40	288	104	49	11,628	219	244
Died in institutions	116	43	71	305	109	1,184	2,216	229	48	340	94	54	3,985	278	775

Deceased, of Parents of Deceased, and Color, for the Year 1892.

Place of Birth of Parents of Deceased.																	
Austro-Hungary.	Bohemia.	British America.	England.	France.	Germany.	Ireland.	Italy.	Poland.	Russia.	Scotland.	Switzerland.	United States.	Other Nationalities.	Mixed Nationalities.	Unknown Nationality.	Total.	Colored.
965	533	127	878	291	7,628	11,569	2,423	263	1,678	392	165	7,898	1,081	5,316	3,122	44,329	845
33	14	1	12	8	250	201	62	7	66	15	5	359	39	306	58	1,436	6
21	7	1	4	6	87	94	96	3	42	3	2	146	11	169	172	864	10
36	15	2	12	3	155	144	30	10	56	6	2	227	21	210	48	977	3
95	66	3	38	18	565	596	241	39	188	15	8	774	101	646	209	3,602	78
12	11	5	30	10	180	285	24	2	35	12	8	169	25	33	55	996	15
3	1	..	10	4	37	60	3	5	6	3	1	41	3	17	40	234	4
38	24	8	68	29	588	726	58	10	66	23	13	355	57	135	133	2,331	55
66	58	21	112	38	946	2,035	175	12	132	53	32	604	150	342	257	5,033	131
189	62	12	107	31	847	1,624	494	35	290	57	22	920	157	679	315	5,841	112
1	4	2	16	4	110	189	10	..	4	1	..	43	11	10	95	430	1
24	33	7	83	21	477	957	43	4	35	24	13	324	39	146	165	2,395	55
5	9	3	17	5	106	238	7	..	9	10	..	91	6	19	29	554	8
..	3	5	18	3	51	157	..	1	2	7	1	53	6	11	49	367	1
1	4	..	6	2	69	142	5	2	..	6	2	13	6	15	46	319	2
1	1	..	..	..	4	15	3	..	..	..	..	7	..	..	5	36	1
3	4	2	3	3	106	21	4	4	8	..	..	21	16	6	40	241	..
31	19	2	13	2	98	127	41	5	42	4	3	270	18	251	548	1,474	28
406	198	53	329	104	2,852	3,958	1,127	124	697	153	53	3,481	415	2,321	928	17,198	335
112	38	39	258	87	1,273	2,975	214	41	397	111	41	1,102	229	569	2,361	9,847	239

Deaths by Age and Sex and Percentage of Each Age

TOTAL NUMBER

Age.	January.		February.		March.		April.		May.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Under 1 year	429	334	404	349	446	367	472	399	448	373
1 to 5 years	355	282	321	296	344	344	377	344	450	374
5 to 10 years	55	73	63	53	66	70	91	75	90	90
10 to 15 years	23	26	23	20	22	28	22	27	19	29
15 to 20 years	37	40	40	52	43	42	46	46	36	52
20 to 25 years	85	70	80	59	75	91	87	90	100	75
25 to 35 years	234	211	181	190	250	192	243	202	217	183
35 to 45 years	233	150	226	173	298	171	270	160	243	131
45 to 55 years	231	176	188	160	211	166	230	152	214	128
55 to 65 years	179	173	169	144	187	151	197	136	168	164
65 to 75 years	136	164	131	111	119	131	130	110	109	110
75 years and over	94	118	63	100	61	79	69	84	41	68
Total	2,091	1,817	1,889	1,707	2,122	1,832	2,234	1,825	2,135	1,777

PERCENTAGE OF EACH AGE

Under 1 year	.97	.75	.91	.79	1.01	.81	1.06	.90	1.01	.84
1 to 5 years	.81	.64	.72	.67	.78	.78	.85	.78	1.02	.84
5 to 10 years	.12	.16	.14	.12	.15	.16	.21	.16	.20	.20
10 to 15 years	.05	.06	.05	.05	.05	.06	.05	.06	.04	.06
15 to 20 years	.08	.09	.09	.12	.10	.09	.10	.10	.08	.12
20 to 25 years	.19	.16	.18	.13	.16	.21	.20	.20	.23	.17
25 to 35 years	.53	.48	.41	.43	.56	.43	.55	.46	.49	.41
35 to 45 years	.53	.34	.51	.39	.67	.39	.61	.36	.55	.30
45 to 55 years	.52	.40	.42	.36	.48	.38	.52	.34	.48	.29
55 to 65 years	.40	.39	.38	.33	.42	.34	.44	.31	.38	.37
65 to 75 years	.31	.37	.30	.25	.27	.30	.29	.25	.25	.25
75 years and over	.21	.27	.14	.23	.14	.18	.16	.19	.09	.15
Total	4.72	4.10	4.26	3.85	4.79	4.13	5.04	4.12	4.82	4.01

Period to Total Mortality during the Year 1892.

OF DEATHS.

June.		July.		August.		September.		October.		November.		December.		Total.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
619	493	1,244	1,087	611	510	480	416	388	312	332	250	349	284	6,222	5,174
340	299	430	408	320	254	245	208	241	212	213	180	245	210	3,877	3,411
63	51	70	65	48	39	42	41	35	47	45	50	56	48	724	702
26	19	20	35	36	20	24	17	23	17	21	15	21	15	280	268
31	32	36	47	40	27	42	36	38	37	33	42	33	43	455	496
69	58	84	77	68	61	75	73	75	55	66	63	78	78	942	850
172	149	281	164	202	147	185	153	202	148	185	150	210	145	2,562	2,034
205	120	214	149	187	125	172	136	201	138	195	146	254	137	2,698	1,736
166	120	242	169	165	124	163	106	166	149	201	125	193	129	2,370	1,704
113	122	188	160	131	106	121	91	142	106	163	129	162	150	1,920	1,632
93	84	111	125	95	87	92	74	90	92	104	107	97	137	1,307	1,332
36	64	60	78	41	66	58	77	47	71	48	64	69	77	687	946
1,933	1,611	2,980	2,564	1,944	1,566	1,699	1,428	1,648	1,384	1,606	1,321	1,763	1,453	24,044	20,285

PERIOD TO TOTAL MORTALITY.

1.40	1.11	2.81	2.45	1.38	1.15	1.08	.94	.88	.70	.75	.56	.79	.64	14.04	11.67
.77	.67	.97	.92	.72	.57	.55	.47	.54	.48	.48	.41	.54	.47	8.75	7.70
.14	.12	.16	.15	.11	.09	.09	.09	.08	.11	.10	.11	.13	.11	1.63	1.58
.06	.04	.05	.08	.08	.05	.05	.04	.05	.04	.05	.03	.05	.03	.63	.60
.07	.07	.08	.11	.09	.06	.09	.08	.09	.08	.07	.09	.07	.10	1.03	1.12
.16	.13	.19	.17	.15	.14	.17	.16	.17	.12	.15	.14	.18	.18	2.13	1.92
.39	.34	.63	.37	.46	.33	.42	.35	.46	.33	.42	.34	.47	.33	5.78	4.59
.46	.27	.48	.34	.42	.28	.39	.31	.45	.31	.44	.33	.57	.31	6.09	3.92
.37	.27	.55	.38	.37	.28	.37	.28	.37	.34	.45	.28	.44	.29	5.35	3.84
.26	.28	.42	.36	.30	.24	.27	.21	.32	.24	.37	.29	.37	.34	4.33	3.68
.21	.19	.25	.28	.21	.20	.21	.17	.20	.21	.23	.24	.22	.31	2.95	3.01
.14	.14	.14	.18	.09	.15	.13	.17	.11	.16	.11	.14	.16	.17	1.55	2.13
4.36	3.63	6.72	5.78	4.39	3.53	3.83	3.22	3.72	3.12	3.62	2.98	3.98	3.28	54.24	45.76

Deaths of Persons 100 *Years of Age and Over during the Year* 1892.

Date of Death.	Name.	Age.			Nativity.	Cause of Death.
		Years.	Months.	Days.		
Jan. 23	Patrick Murphy	101	..	..	Ireland	Old age.
Feb. 12	Benjamin Koenig	108	..	..	Germany	Old age, nephritis.
" 13	Mary Clements	103	..	..	Ireland	Old age.
" 24	Vincenzo Durante	105	3	..	Italy	Bronchitis.
Mar. 1	Lucy Ridley (colored)	118	2	8	United States	"
Apr. 27	Patrick McCarthy	101	..	..	Ireland	Old age.
May 5	Eliza Gallaghan	100	..	..	"	Chronic bronchitis.
Dec. 26	Zirl Lescynsky	124	6	..	Russia	Old age.

Interments of Deceased Persons for Six Years ending December 31, 1892.

Location of Interments.	1887.	1888.	1889.	1890.	1891.	Average for Five Years Preceding 1892.	1892.
City Cemetery	3,936	3,956	3,815	3,907	4,264	3,975.6	4,426
Cemeteries outside of New York City	33,276	34,352	33,961	34,495	37,675	34,751.8	38,150
Cemeteries inside of New York City.	1,726	1,834	1,807	1,828	1,695	1,778 0	1,741
Ward's Island*	150	178	108	31	.....	93.4	.....
Total interments	38,938	40,142	39,583	40,230	43,634	40,505.4	44,317
Percentage of pauper burials to total.	10.11	9.85	9.64	9.71	9.77	9.81	9.99

* Immigrant Hospital and Cemetery now abandoned.

Deaths and Death-rate by Sex, Year 1892.

Months.	Number of Deaths.			Death-rate per 1,000 of Estimated Population.		
	Male.	Female.	Total.	Male.	Female.	Total.
January	2,091	1,817	3,908	13.91	12.08	25.99
February	1,889	1,707	3,596	12.56	11.35	23.92
March	2,122	1,832	3,954	14.11	12.18	26.30
April	2,234	1,825	4,059	14.73	12.04	26.77
May	2,135	1,777	3,912	14.08	11.72	25.80
June	1,933	1,611	3,544	12.75	10.62	23.37
July	2,980	2,564	5,544	19.48	16.76	36.25
August	1,944	1,566	3,510	12.71	10.24	22.95
September	1,699	1,428	3,127	11.11	9.34	20.45
October	1,648	1,384	3,032	10.68	8.97	19.65
November	1,606	1,321	2,927	10.41	8.56	18.97
December	1,763	1,453	3,216	11.43	9.41	20.84
Total	24,044	20,285	44,329	13.16	11.10	24.26

Births and Birth-rate by Sex, Year 1892.

Months.	Number of Births Registered	Birth-rate per 1,000.	Males.	Females.	Per-centage of Males to Total.	Percentage of Females to Total.
January	4,215	28.03	2,156	2,059	51.15	48.85
February	4,051	26.94	2,023	2,028	49.94	50.06
March	4,348	28.92	2,191	2,157	50.39	49.61
April	3,902	25.73	2,011	1,891	51.54	48.46
May	3,959	26.11	2,067	1,892	52.21	47.79
June	3,829	25.25	1,926	1,903	50.30	49.70
July	3,884	25.39	2,044	1,840	52.63	47.37
August	4,562	29.82	2,330	2,232	51.08	48.92
September	3,987	26.07	2,030	1,957	50.92	49.08
October	4,188	27.14	2,136	2,052	51.00	49.00
November	4,183	27.11	2,152	2,031	51.45	48.55
December	4,339	28.12	2,225	2,114	51.27	48.73
Total	49,447	27.06	25,291	24,156	51.15	48.85

Deaths by Suicide

Nativity.	Cuts and Stabs.		Decapitation by R. R. Train.		Drowning.		Gunshots.		Hanging.		Leaps.		Strangulation.		Arsenic.		Carbolic Acid.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Austro-Hungary	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	1	..	..
Bohemia	..	..	..	..	..	..	2	..	1	..	..	1	..	..	..	..	..	..
British America	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
England	..	..	..	..	..	..	2	..	1	..	..	..	..	..	1	..	..	..
France	..	1	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..
Germany	7	..	1	..	2	..	37	..	25	3	2	1	..	1	2	1	2	1
Ireland	2	..	..	..	..	..	1	..	4	..	2	3	..	..	..	1	1	..
Italy	..	..	..	..	..	..	2	..	..	..	..	1	..	..	..	..	..	..
Poland	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
Russia	1	..	..	..	1	..	1	..	2	..	..	..	..	..	..	..	..	..
Other foreign countries	4	..	..	..	..	..	7	..	2	..	..	..	..	..	2	..	..	..
United States	4	1	..	..	..	..	22	..	5	3	2	3	..	..	..	..	2	..
Unknown	..	..	..	..	1	1	4	..	4	..	1	..	..	..	..	..	..	..
Total	18	2	1	..	4	1	84	..	45	6	8	9	..	1	5	3	5	1

Ages of

Native.		Foreign.		10–15.		15–25.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
42	15	160	24	..	1	17	9

during the Year 1892.

Coal Gas.		Cyanide of Potassium.		Ether.		Illuminating Gas.		Irritant Poison.		Laudanum.		Morphine.		Opium.		Oxalic Acid.		Paris Green.		Pennyroyal.		Rough-on-Rats.		Poison not Specified.		Total by Sex.		Total of both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	4	1	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	..	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
1	..	1	1	..	..	..	..	1	..	..	..	..	..	2	..	1	..	9	2	..	..	1	..	1	..	95	10	105
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	11	6	17
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	2	2	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	6	1	7
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	17	..	17
..	..	..	..	..	1	4	1	..	..	..	1	1	1	1	..	1	..	..	2	..	1	..	..	..	1	42	15	57
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	1	12
1	..	2	1	..	1	8	2	1	..	..	1	1	1	3	..	2	..	12	8	..	1	1	..	1	1	202	39	241

Suicides.

25–45.		45–65.		65 and Over.		Total by Sexes.		Total both Sexes.
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	
100	18	70	8	15	3	202	39	241

Deaths in Institutions during the Year 1892.

Almshouse	557	Mount Sinai Hospital	251
Babies' Hospital	69	New York Hospital	344
Bellevue Hospital	1,503	North Brother Island Hospital	297
Bloomingdale Lunatic Asylum	37	Nursery and Child's Hospital	142
Chambers Street Hospital	148	Post-Graduate Hospital	89
Charity Hospital	9	Presbyterian Hospital	272
City Hospital	621	Randall's Island Hospital	187
Colored Home Hospital	115	Roosevelt Hospital	303
Ellis' Island Emigrant Depot	78	St. Francis' Hospital	276
Foundling Asylum	613	St. Joseph's Hospital	404
French Hospital	43	St. Luke's Hospital	234
German Hospital	136	St. Vincent's Hospital	244
Gouverneur Hospital	207	St. Mark's Hospital	55
Harlem Hospital	145	Skin and Cancer Hospital	91
Home for Aged (Little Sisters of the Poor)	91	Sloane Maternity Hospital	48
Home for Incurables	68	Ward's Island Emigrant Hospital	272
Homœopathic Hospital (Ward's Island)	4	Willard Parker Hospital	112
Infant's Hospital (Randall's Island)	515	Woman's Hospital	23
Insane Asylum (Ward's Island)	373	Workhouse	38
Lunatic Asylum (Blackwell's Island)	122	Other institutions	660
Manhattan Hospital	51	Total	9,847

RECAPITULATION.

Prisons	97	Homes for aged	215
Hospitals	7,681	Almshouse	557
Lunatic Asylums	532	Other institutions	73
Institutions for children	692	Total	9,847

Deaths by Accident and Negligence during the Year ending December 31, 1892.

Burns and Scalds—		Burns and Scalds—	
Burns :		Burns :	
Not specified	54	At fire, Hotel Royal (Fortieth street and Sixth avenue)	18
At fire, No. 476 Courtlandt avenue	1	" No. 74 Monroe street.	1
" No. 130 East Fifty-ninth street	1	" No. 100 Suffolk street.	1
" No. 67 East One Hundred and Eighteenth street	3	" Van Tassel's elevator	1
" One Hundred and Thirty-fourth street and Brown place	2	" No. 111 West Thirty-third street	3
		" No. 341 West Forty-fourth street	1

[redacted]

[redacted]

[redacted]

Deaths by Accident and Negligence during the Year ending December 31, 1892—(Continued).

Fractures and Contusions—		
By fall of wall		1
" " other heavy bodies		23
" kick		2
" kick of bullock		1
" " horse		8
" piece of coal		1
" " wood from circular saw		2
" stone		1
Caught in machinery		7
Hit on head by dumb-waiter		1
Injury of abdomen, while drawing sleigh		1
" received while at play		3
" " roller skating		1
" " sleighing		1
" received in panic at fire, No. 27 Ludlow street		5
Knocked down by horse		1
" man		2
Leap from window, at fire No. 87 Hester street		1
Total fractures and contusions		192
Poison—		
Not defined		2
Ammonia		1
Arsenic		2
Carbolic acid		13
Carbonic acid in water tank		1
Caustic lye		1
Chloroform		7
Corrosive sublimate		1
Ether		1
Gas-stove, No. 288 Eighth avenue		1
Illuminating gas, as follows:		
No. 135 Bleecker street	2	
No. 139 Bleecker street	1	
No. 183 Bowery	1	
Broadway and One Hundred and Thirty-third street	1	
Cancer Hospital	1	
No. 241 Central Park, West	1	
Poison—		
Illuminating gas, as follows:		
Chambers Street Hospital	1	
No. 88 Cherry street	2	
No. 198 Clinton street	1	
No. 210 East Eleventh street	1	
No. 828 East Eleventh street	1	
No. 304 East Fifteenth street	1	
No. 107 East Thirty-first street	1	
No. 154 East Forty-second street	1	
No. 163 East Forty-sixth street	1	
No. 301 East Fifty-second street	1	
No. 201 East Fifty-third street	1	
No. 325 East Eighty-second street	1	
No. 333 East Eighty-seventh street	1	
No. 252 East Eighty-ninth street	1	
No. 238 East Ninety-seventh street	1	
No. 399 East One Hundred and Twenty-fifth street	1	
No. 75 Eighth avenue	1	
No. 73 Elizabeth street	1	
Home-made Hotel	2	
No. 196 Madison street	1	
No. 1694 Morris avenue	1	
No. 65 Nassau street	2	
No. 100 Park Row	1	
No. 456 Sixth avenue	1	
St. Vincent's Hospital	1	
No. 35 Third avenue	1	
No. 180 Third avenue	1	
No. 192 Third avenue	1	
No. 570 Third avenue	1	
No. 683 Third avenue	1	
No. 1485 Third avenue	1	
No. 68 West street	1	
No. 126 West street	1	
No. 127 West street	1	
No. 73 West Twelfth street	1	
No. 66 West Twenty-second street	1	
No. 217 West Thirty-sixth street	1	

Deaths by Accident and Negligence during the Year ending December 31, 1892—(Continued).

Poison—		
Illuminating gas, as follows:		
No. 408 West Forty-sixth street	1	
No. 166 West Fiftieth street	2	
No. 53 West Fifty-seventh street	1	
No. 68 West One Hundred and Sixth street	1	
No. 606 West One Hundred and Forty-seventh street	1	
		52
Irritant poison		1
Lead		4
Morphine		6
Narcotic		1
Opium		7
Paris green		3
Rough-on-rats		1
Sewer gas		1
Strychnine		2
Total poison		108
Street Accidents—		
Manhattan Elevated Railroad		8
Other steam railroads, as follows:		
Line not stated	10	
Bergen Railroad, New Jersey.	1	
Delaware, Lackawanna and Western Railroad	1	
Harlem Railroad	2	
New York Central and Hudson River Railroad	27	
New York, Lake Erie and Western Railroad	1	
New York, New Haven and Hartford Railroad	11	
New York and Northern Railroad	1	
New York, West Shore and Buffalo Railroad	2	
Total steam roads		56
Street-car lines, as follows:		
Line not stated	9	
Belt Line	2	
Broadway line	4	
Brooklyn Bridge	2	
Clinton Street line	1	
Delancey Street line	1	
East Broadway line	1	

Street Accidents—		
Street-car lines, as follows:		
Eighth Avenue line	2	
First Avenue line	2	
Forty-second Street line	1	
Fourth Avenue line	4	
Grand Street line	1	
Madison Avenue line	1	
Metropolitan Crosstown Line.	1	
Second Avenue line	9	
Sixth Avenue line	2	
Third Avenue line	4	
Trolley line	1	
Twenty-third Street line	1	
Total street cars		49
Other street vehicles		73
Total street accidents		186
Suffocation—		
At conflagration, as follows:		
No. 82 Amsterdam avenue	1	
No. 476 Courtlandt avenue	1	
No. 67 East One Hundred and Eighteenth street	1	
No. 31 St. Mark's place	1	
By button in œsophagus		1
" drawing toy balloon into mouth		1
" food		8
" lying on face in epileptic fit		1
" rubber nipple		1
" smoke		2
Overlaid		23
Other ways		6
Total suffocation		47
Wounds—		
By explosion of gas		1
Gunshot		13
Of finger		1
" foot		3
" forehead, by stone		1
" hand		3

Deaths by Accident and Negligence during the Year ending December 31, 1892—(Continued).

Wounds—		Miscellaneous—	
Of hand by hammer	1	Abortion, criminal	1
" hand by meat hook	1	Jump from window	2
" head	1	Neglect and exposure	12
" leg	1	Strained by lifting	1
" leg by nail	1	Traumatic peritonitis	1
" leg by pin	1		
" thigh	2	Total miscellaneous	17
" thumb	3		
Producing rupture of lungs	1	Total deaths by violence, exclusive of homicide, suicide, sunstroke and surgical operations	1,429
Scratch of nails, erysipelas	1		
Others	14		
Total wounds	49		

Deaths from Surgical Operations during the Year 1892.

Amputation of breast	1	Extraction of teeth, incision of abscess	1
Amputation of finger	1	Extraction of tooth, hæmorrhage	1
Amputation of leg, senile gangrene	4	Hernia, reduction of, by manipulation, peritonitis	1
Amputation of both legs, diabetes, gangrene	1	Hysterectomy	2
Amputation of thigh	1	Hysterectomy, abdominal	1
Amputation of thumb, gangrene	1	Hysterectomy, hæmorrhage	1
Cholecystotomy, gall-stones, pneumonia	1	Hysterectomy, new growth	1
Circumcision	1	Hysterectomy, pelvic peritonitis	1
Circumcision, erysipelas	1	Hysterectomy, suppression of urine	1
Circumcision, septicæmia	3	Hysterectomy, uræmia	1
Circumcision, tetanus	1	Hysterectomy, vaginal	1
Circumcision, umbilical hæmorrhage	1	Laparotomy	4
Craniotomy, abscess of brain, purulent otitis	1	Laparotomy for abdominal tumor	2
Craniotomy, premature ossification	1	Laparotomy for abscess	1
Cystotomy	1	Laparotomy for acute nephritis	1
Cystotomy, cystic tumor	1	Laparotomy for cyst	1
Cystotomy, pubic	1	Laparotomy for cystic oöphoritis	1
Cystotomy, removal of prostate	1	Laparotomy for dilated stomach	1
Embryotomy, contracted pelvis, shock	1	Laparotomy for empyema of gall-bladder	1
Excision of hip joint	1	Laparotomy for intestinal obstruction	1
Excision of knee joint	1	Laparotomy for intussusception	1
Excision of knee joint, tubercular disease	1	Laparotomy for obstruction of bowels	1
Excision of thyroid gland, partial, shock	1	Laparotomy for ovarian tumor	4
Extirpation of rectum, stricture	1	Laparotomy for papillomatous cyst	1

Deaths from Surgical Operations during the Year 1892—(Continued).

Laparotomy for pelvic abscess	1	Operation for ovarian cyst	1
Laparotomy for pelvic hæmatocele	1	Operation for perforation of appendix, peritonitis	1
Laparotomy for pelvic growth	1	Operation for pyelitis	1
Laparotomy for peritonitis	3	Operation for pyosalpinx	1
Laparotomy for post-partum abscess	1	Operation for removal of tissues of larynx	1
Laparotomy for purulent peritonitis	1	Operation for removal of button swallowed, gastritis	1
Laparotomy for pyosalpinx	2	Operation for sarcoma of testes, uræmia	1
Laparotomy for pyosalpinx, shock	1	Operation for sarcoma of tonsils	1
Laparotomy for salpingitis	1	Operation for spina bifida	1
Laparotomy for septic peritonitis	1	Operation for stone in kidney	1
Laparotomy for shock	1	Operation for strangulated ventral hernia	1
Laparotomy for tumor	1	Operation for thyroid tumor	1
Laparotomy for tumor of uterus	1	Operation for tumor of brain	1
Laparotomy for ulceration of cœcum	1	Operation for tuberculosis of hip	1
Laparotomy for uterine fibroid	6	Operation for uterine fibroid	4
Nephrectomy for calculus, myelitis, hæmorrhage	1	Operation, shock, peritonitis	1
Oöphorectomy	1	Ovariotomy	2
Oöphorectomy for cystic ovaries	1	Ovariotomy, fibroid degeneration	1
Oöphorectomy for peritonitis	1	Ovariotomy, septicæmia	1
Operation for abdominal tumor, shock	1	Ovariotomy, tubo-ovarian abscess	1
Operation for abscess of knee joint, shock	1	Removal of cystic tumor, peritonitis	1
Operation for abscess of kidney	1	Removal of gall stones, peritonitis	1
Operation for abscess of ovary	1	Removal of kidney tumor, shock	1
Operation for cancer	1	Removal of tubercular glands of neck	1
Operation for cancer of breast	2	Removal of upper jaw, naso-pharyngeal polypus	1
Operation for cancer of kidney	1	Resection of intestines, pyosalpinx	1
Operation for cancer of uterus	1	Surgical shock, abscess	1
Operation for cerebral atrophy	2	Surgical shock, epilepsy	1
Operation for contracted knee joint	1	Trachelorrhaphy, perineorrhaphy, shock	1
Operation for cystic tumor	1	Tracheotomy, enlarged thyroid gland	1
Operation for fæcal fistula	1	Trephining for epilepsy	1
Operation for gangrene of scrotum	1	Urethral injection of cocaine to relieve urethral spasms, retention	1
Operation for hæmatoma of thigh, hæmorrhage	1	Urethrotomy	1
Operation for hæmorrhoids, prolapsus recti	1	Urethrotomy, septicæmia	1
Operation for hernia, ether administered	1	Vaccination, erysipelas	1
Operation for hernia, peritonitis	2	Vaccination, septicæmia	1
Operation for myoma uteri	1		
Operation for omental hernia, septic peritonitis	1	Total deaths from surgical operations	151
Operation for ovarian abscess	1		

Ages of Bridegrooms and Brides

Ages of Bridegrooms—Years.	Ages of Brides—Years.											
	14	15	16	17	18	19	20	21 to 25	25 to 30	30 to 35	35 to 40	40 to 45
16	..	..	..	..	..	..	..	..	1	..	..	..
17	..	..	2	..	..	..	..	..	1	..	..	..
18	..	..	3	12	14	4	2	5	2	..	..	..
19	..	..	6	15	33	22	11	9	3	..	..	..
20	..	..	9	33	71	79	82	63	9	..	1	..
21 to 25	1	1	71	200	529	752	989	2,075	382	64	7	2
25 to 30	..	1	50	112	271	424	607	2,213	1,363	235	64	15
30 to 35	..	1	6	25	56	76	127	831	780	383	84	29
35 to 40	..	..	1	12	17	33	41	251	384	230	153	34
40 to 45	..	..	..	2	4	6	4	76	166	145	110	80
45 to 50	..	..	..	1	3	..	3	29	71	75	83	87
50 to 55	..	..	..	..	..	..	1	10	23	24	34	36
55 to 60	..	..	..	..	1	..	..	7	10	11	20	22
60 to 65	..	..	..	..	..	..	..	2	8	10	10	10
65 to 70	..	..	..	..	..	..	..	..	..	3	5	4
70 to 75	..	..	..	..	..	..	..	..	..	2	1	..
75 to 80	..	..	..	..	..	..	..	..	..	..	..	1
Unspecified	..	..	..	..	..	..	1	1	3	..	..	..
Total Brides	1	3	148	412	999	1,396	1,868	5,572	3,206	1,182	572	320

Former Condition

	January.	February.	March.	April.	May.
Bachelors and spinsters	997	1,092	1,099	1,053	1,014
Bachelors and widows	62	55	61	76	68
Widowers and spinsters	67	100	103	112	110
Widowers and widows	57	65	56	44	68
Unknown (one or both)	7	13	7	....	....
Divorced (one or both)	6	7	8	10	12
Total	1,196	1,332	1,334	1,295	1,272

during Year ending December 31, 1892.

Ages of Brides—Years.									
45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	Unspecified.	Total Bride-grooms.
..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	3
..	..	..	..	..	..	..	..	..	42
..	..	..	..	..	..	..	..	..	99
..	..	..	..	..	..	..	..	..	347
1	..	..	..	..	..	..	..	8	5,082
2	1	..	..	..	..	1	..	9	5,368
7	2	..	1	..	..	..	..	3	2,421
9	2	1	..	..	..	..	..	2	1,170
26	5	..	..	..	..	..	..	..	624
47	7	3	..	..	..	..	..	..	409
36	14	9	2	1	..	..	..	1	192
26	12	6	3	..	..	..	..	..	118
7	9	8	6	..	..	..	..	1	71
9	6	5	4	..	..	..	..	..	36
1	2	1	1	1	..	..	..	..	9
1	1	1	..	..	..	..	..	..	4
..	..	..	..	..	..	..	..	11	16
172	61	34	17	2	..	1	..	35	16,001

of Persons Married.

June.	July.	August.	September.	October.	November.	December.	Total.
1,306	906	928	1,039	1,079	1,265	1,283	13,061
71	80	71	62	77	78	78	839
104	93	91	108	97	109	131	1,225
57	51	57	84	53	57	77	726
3	11	....	....	....	1	....	42
11	13	8	5	9	9	10	108
1,552	1,154	1,155	1,298	1,315	1,519	1,579	16,001

Table of Births Reported by Months, for the Year 1892, *showing Color, Nativity of*

Months.	Total.	White.		Colored.	
		Male.	Female.	Male.	Female.
January	4,215	2,137	2,035	19	24
February	4,051	1,992	2,016	23	20
March	4,348	2,175	2,116	24	33
April	3,902	1,983	1,871	28	20
May	3,959	2,046	1,871	21	21
June	3,829	1,897	1,876	29	27
July	3,884	2,021	1,811	23	29
August	4,562	2,305	2,206	25	26
September	3,987	2,009	1,934	21	23
October	4,188	2,122	2,032	14	20
November	4,183	2,134	2,005	18	26
December	4,339	2,206	2,090	19	24
Total	49,447	25,027	23,863	264	293

Table showing the Increase or Decrease in 1892 *from Certain Causes Comprising about* 80 *per Causes for the previous Ten Years, Increased*

Causes of Death.	Average for 10 Years, 1882–1891, Inclusive.	Same Increased for Increase of Population.	Deaths in 1892.	Increase in 1892.	Decrease in 1892.
Small-pox	51.3	62	81	19	....
Measles	701.6	843	864	21	....
Scarlatina	916.8	1,102	977	....	125
Typhus fever	14.1	17	45	28	....
Whooping-cough	479.2	576	371	....	205
Diphtheria	1,506.6	1,811	1,436	....	375
Typhoid fever, including typho-malarial fever	437.3	526	400	....	126
Diarrhœal diseases	3,587.9	4,314	3,602	....	712
Cancer	808.0	971	996	25	....
Phthisis and other tuberculous diseases	6,015.5	7,232	6,007	....	1,225
Premature birth	699.1	840	776	....	64
Diseases of the nervous system*	3,232.1	3,886	3,655	....	231

* Sunstroke included from 1881 to 1887, excluded from 1883 to 1892, inclusive.

Parents, Number Reported by Physicians and Midwives, Illegitimate and Twin Births.

Nativity of Parents.								Births Reported by		Births Apparently Illegitimate.	Pairs of Twins Reported.
native.		foreign.		mixed.		unknown.					
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Physicians.	Midwives.		
490	482	1,300	1,271	315	277	51	29	2,173	2,042	106	40
520	486	1,159	1,221	290	287	46	42	2,133	1,918	100	35
544	529	1,281	1,267	327	304	47	49	2,264	2,084	104	34
521	453	1,143	1,122	310	279	37	37	2,091	1,811	96	27
496	438	1,223	1,126	298	283	50	45	2,112	1,847	106	34
456	459	1,129	1,131	301	265	40	48	1,893	1,936	128	34
506	467	1,198	1,049	302	300	38	24	2,054	1,830	86	*24
561	556	1,410	1,304	318	342	41	30	1,580	2,982	81	40
487	455	1,153	1,186	348	283	42	33	2,076	1,911	77	20
498	491	1,298	1,236	311	285	35	40	2,173	2,015	104	37
535	472	1,268	1,197	302	318	47	44	2,151	2,032	109	26
521	468	1,335	1,310	337	304	42	32	2,261	2,078	110	28
6,119	5,756	14,897	14,420	3,759	3,527	516	453	24,961	24,486	1,207	379

* Also 1 trio of triplets.

cent. of all Deaths as Compared with the Average Annual Number of Deaths from the Same to Correspond with the Increase of Population.

Causes of Death.	Average for 10 Years, 1882–1891, Inclusive.	Same Increased for Increase of Population.	Deaths in 1892.	Increase in 1892.	Decrease in 1892.
Diseases of the circulatory system.....	1,995.7	2,399	2,507	108	....
Diseases of the respiratory system, including croup.....	6,999.2	8,402	9,242	840	....
Diseases of the urinary system.....	2,398.0	2,883	2,543	....	340
Child-birth and puerperal fever.....	401.9	483	417	....	66
Accident.....	1,207.5	1,452	1,900	448	....
Homicide.....	63.1	76	38	....	38
Suicide.....	228.4	275	241	....	34
All other causes.....	6,511.8	7,708	8,231	523	. ..
Total.....	38,255.1	45,858	44,329	2,012	3,541
Balance.....	.....	.....	.....	....	1,529

The table thus shows a saving of 1,529 lives of persons in 1892, who would have died during the year if the mortality had been equal to the average annual mortality for the previous ten years.

Cases of Sickness Reported Weekly from Diphtheria,

Wards.	Week Ending—											
	Jan. 2.	Jan. 9.	Jan. 16.	Jan. 23.	Jan. 30.	Feb. 6.	Feb. 13.	Feb. 20.	Feb. 27.	Mar. 5.	Mar. 12.	Mar. 19.
Diphtheria.												
First	..	..	1	2	1	..	..	..	..	1	..	1
Second	..	..	..	..	..	..	..	..	..	..	..	..
Third	1	..	..	..	..	..	1	..	1	1	..	1
Fourth	3	3	1	..	..	..	1	..	..	1	..	2
Fifth	..	2	..	2	9	5	4	5	3	1	5	2
Sixth	4	1	1	3	2	1	2	..	4	3	2	2
Seventh	11	7	10	4	7	3	1	4	4	3	4	5
Eighth	4	5	..	2	2	..	3	1	2	2	1	1
Ninth	3	..	1	5	..	4	5	4	..	3	3	..
Tenth	2	5	2	6	4	7	3	13	8	5	1	5
Eleventh	4	4	15	2	3	4	11	8	4	2	1	2
Twelfth	20	23	10	26	16	13	19	29	22	12	23	26
Thirteenth	5	4	3	3	..	2	4	8	6	8	2	3
Fourteenth	2	..	2	3	4	1	..	3	..	1	..	..
Fifteenth	3	1	1	2	1	..	4	1	2	1	5	1
Sixteenth	5	8	10	3	2	4	4	1	2	4	4	5
Seventeenth	5	3	12	4	9	8	7	9	12	10	8	12
Eighteenth	5	2	5	6	..	1	5	6	8	4	2	2
Nineteenth	9	16	21	12	16	20	16	12	24	28	13	8
Twentieth	13	8	8	9	8	9	10	11	7	10	10	10
Twenty-first	5	2	4	2	3	2	2	4	7	3	6	1
Twenty-second	17	17	16	8	10	16	13	15	10	8	10	3
Twenty-third	4	10	4	7	3	9	3	5	7	3	7	5
Twenty-fourth	..	..	..	..	1	2	3	2	..	..	..	3
Total	125	121	127	111	101	111	121	141	133	114	107	100
Measles.												
First	3	1	3	4	..	..	12	2	9	20	4	20
Second	..	..	..	..	..	..	..	..	..	..	..	..
Third	..	..	..	..	..	..	..	..	..	..	..	..
Fourth	..	..	..	..	..	..	1	1	3	..	2	..
Fifth	..	..	..	..	..	..	..	..	..	1	..	..
Sixth	..	..	..	..	1	3	2	4	3	6	..	4
Seventh	..	6	12	4	6	4	11	2	8	10	10	2
Eighth	..	..	..	1	..	..	..	..	2	1	1	1
Ninth	..	..	1	2	..	3	9	9	19	7	5	11
Tenth	9	13	8	20	13	7	15	13	6	17	14	8
Eleventh	8	6	6	19	6	11	8	12	15	31	12	15
Twelfth	9	18	10	30	20	33	42	73	62	90	85	78

Measles and Scarlatina, by Wards, for the Year 1892.

Week Ending—														
Mar. 26.	Apr. 2.	Apr. 9.	Apr. 16.	Apr. 23.	Apr. 30.	May 7.	May 14.	May 21.	May 28.	June 4.	June 11.	June 18.	June 25.	July 2.
..	1	3	3	1	1	..	..	..	..	..	2	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	..	..	..	..	..	1	..	..	..
1	..	..	1	3	2	4	2	1	..	..	..	..	..	..
1	..	1	..	5	1	..	1	..	1	..	..	..	..	1
1	5	1	4	..	3	2	..	..	1	..	..	..	1	..
3	5	2	2	..	3	6	6	4	2	1	2	1	5	1
2	3	6	2	..	2	..	2	4	1	2	..	..	..	..
1	4	5	2	3	3	..	2	1	2	9	1	3	3	1
6	5	2	5	3	4	1	2	4	2	6	3	5	2	4
5	6	6	1	1	4	4	1	2	3	3	1	3	4	2
18	28	26	20	18	20	32	24	28	14	8	12	14	13	8
5	3	1	1	3	2	4	3	3	3	..	..	2	1	..
1	1	2	..	2	1	1	2	3	1	4	1	1	..	1
2	..	..	1	1	1	3	..	1	..	..	..	3	1	1
6	4	6	2	3	4	4	6	5	6	5	6	2	2	1
2	8	3	7	10	6	16	3	4	5	2	2	5	4	2
4	5	1	6	7	1	1	9	9	7	..	2	3	3	3
27	18	32	13	22	20	17	14	22	22	26	17	12	16	20
7	14	12	11	10	5	4	6	15	13	3	5	5	5	2
5	1	1	3	3	6	1	2	7	5	2	2	2	2	1
8	14	18	21	16	20	19	17	11	3	14	7	6	10	8
10	4	13	2	3	11	6	2	6	4	1	2	1	2	2
..	1	2	2	4	3	3	..	1	1	..	1	2	1	1
216	230	243	209	218	223	227	204	231	196	186	167	172	175	161
23	22	9	31	4	29	20	18	27	10	33	28	27	15	27
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	..	..	1	..	..	..	..	..	1
2	..	5	4	4	3	5	3	5	..	9	7	9	7	5
..	2	1	1	..	..	3	1	2	1	4	2	1	3	2
4	2	5	3	1	1	1	2	1	4	3	..	4	2	5
8	7	13	4	14	14	16	12	14	9	7	7	9	2	12
..	..	2	8	1	6	6	8	10	12	11	8	9	8	8
13	20	25	32	26	45	36	36	35	25	11	27	28	28	22
6	9	10	4	16	5	15	8	19	14	5	13	14	15	22
19	22	14	13	25	13	9	8	11	6	15	13	6	5	9
236	149	156	127	143	182	181	213	246	204	189	144	74	68	38

Cases of Sickness Reported Weekly from Diphtheria, Measles

Wards.	Week Ending— July 9.	July 16.	July 23.	July 30.	Aug. 6.	Aug. 13.	Aug. 20.	Aug. 27.	Sept. 3.	Sept. 10.	Sept. 17.	Sept. 24.
Diphtheria.												
First	..	..	1	..	2	..	1	..	..	1	..	..
Second	..	..	..	..	..	..	..	..	..	..	..	..
Third	1	..	..	..	..	..	..	..	1	1	1	..
Fourth	..	..	..	..	..	..	..	..	..	..	..	..
Fifth	..	1	..	..	..	..	..	1	..	1	..	..
Sixth	1	..	2	1	..	1	..	1	2	1	..	1
Seventh	2	3	2	3	1	2	2	3	1	4	..	1
Eighth	..	1	2	1	2	..	2	..	1	..	2	..
Ninth	1	2	3	..	1	2	1	..	1	1	1	..
Tenth	1	4	3	3	2	3	..	2	4	3	1	3
Eleventh	2	4	8	4	1	3	1	2	3	2	3	2
Twelfth	19	17	12	10	3	7	9	13	7	19	27	4
Thirteenth	2	1	3	5	..	1	4	2	3	1	1	1
Fourteenth	1	2	..	2	1	..	..	..	1	1	2	1
Fifteenth	..	..	1	1	1	1	..	..	2	4	..	..
Sixteenth	..	1	2	2	2	..	1	1	5	1	3	3
Seventeenth	4	4	4	3	2	2	4	5	2	6	4	1
Eighteenth	2	2	5	..	4	2	3	2	5	3	2	..
Nineteenth	18	8	18	15	11	6	4	9	9	8	11	21
Twentieth	3	8	2	8	4	8	2	2	..	5	8	2
Twenty-first	..	1	1	2	2	..	5	3	..	..	1	..
Twenty-second	3	4	9	6	11	6	8	11	4	8	6	8
Twenty-third	1	1	3	6	5	2	1	1	6	1	4	4
Twenty-fourth	..	..	..	..	..	1	1	..	2	..	2	1
Total	61	64	81	72	55	47	49	58	59	71	79	53
Measles.												
First	22	40	16	9	4	1	2	1	..	..	..	..
Second	1	2	1	..	..	..	2	..	..	..	..	..
Third	..	..	..	..	..	..	..	1	..	1	..	..
Fourth	4	7	8	4	2	2	..	..	..	1	1	..
Fifth	5	2	4	6	4	..	..	1	1	..	..	..
Sixth	2	5	3	6	1	2	4	3	1	1	..	..
Seventh	8	19	12	5	8	5	6	3	7	5	8	1
Eighth	9	7	7	4	3	6	7	6	3	3	..	..
Ninth	12	6	9	3	4	5	2	4	..	2	..	..
Tenth	16	21	15	9	8	8	9	8	3	6	4	1
Eleventh	10	12	5	3	8	8	2	7	5	1	1	2
Twelfth	21	31	23	14	15	13	9	13	5	6	3	..

and Scarlatina, by Wards, for the Year 1838—Continued.

Week Ending—														
Oct. 1.	Oct. 8.	Oct. 15.	Oct. 22.	Oct. 29.	Nov. 5.	Nov. 12.	Nov. 19.	Nov. 26.	Dec. 3.	Dec. 10.	Dec. 17.	Dec. 24.	Dec. 31.	Total.
..	..	..	..	3	..	1	..	1	1	1	1	1	1	96
..	..	..	..	..	..	..	..	..	1	..	..	..	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	11
..	..	1	..	..	..	3	1	1	1	..	..	..	2	34
..	..	..	..	..	1	1	..	1	..	..	1	..	..	57
3	..	..	..	1	2	2	1	2	..	3	3	1	1	72
1	1	1	..	..	6	2	2	..	6	3	1	3	3	159
..	..	..	1	2	4	2	..	1	2	..	..	..	1	71
1	2	..	1	..	4	2	5	2	2	4	7	3	3	120
2	2	1	1	3	3	5	11	4	2	3	6	2	7	136
4	5	1	4	7	2	3	2	6	7	2	2	3	3	192
9	12	8	11	9	12	5	10	10	11	17	13	10	21	289
6	4	5	2	5	2	3	1	..	1	..	6	2	7	147
..	1	..	1	1	2	1	..	1	3	3	1	..	..	62
..	..	..	..	2	4	2	1	3	3	1	1	..	3	66
1	3	6	2	1	3	4	4	2	1	1	2	6	4	175
1	2	4	4	6	6	7	6	6	5	2	4	4	5	281
..	..	1	1	3	3	3	3	..	1	..	2	2	3	159
15	17	15	8	18	21	8	20	21	26	17	30	35	30	918
4	4	5	3	5	6	5	4	2	9	4	10	3	2	348
..	..	1	4	2	5	3	1	2	4	4	3	4	8	140
8	3	5	1	7	13	8	11	12	11	4	11	7	14	534
2	2	2	1	3	2	2	6	5	3	4	4	5	..	212
3	..	3	1	4	7	1	5	4	7	3	4	..	..	82
60	58	59	46	82	108	77	97	88	110	76	112	107	118	4,917
..	..	..	..	..	1	..	..	..	..	..	..	..	1	498
..	..	..	..	..	..	..	..	..	..	..	..	..	..	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	5
..	..	..	..	..	..	..	..	..	..	2	3	3	1	113
..	..	..	..	..	..	..	..	..	..	..	..	..	..	47
3	3	..	..	1	..	1	2	3	3	3	7	4	4	123
3	..	1	..	3	3	3	3	..	4	6	13	8	4	361
..	..	..	..	..	..	..	..	1	..	..	2	1	..	168
1	1	..	..	..	..	1	6	2	1	..	1	1	..	496
1	4	2	4	4	4	1	2	5	1	..	3	9	1	455
3	3	2	4	3	4	4	4	3	1	4	3	5	5	447
3	..	2	3	3	8	..	10	5	1	4	8	9	16	2,985

Cases of Sickness Reported Weekly from Diphtheria, Measles

Wards.	Week Ending—											
	Jan. 2.	Jan. 9.	Jan. 16.	Jan. 23.	Jan. 30.	Feb. 6.	Feb. 13.	Feb. 20.	Feb. 27.	Mar. 5.	Mar. 12.	Mar. 19.
Thirteenth.....	9	5	8	5	4	7	2	8	8	12	7	4
Fourteenth.....	3	3	..	1	1	3	2	..	1	5	..	1
Fifteenth	..	..	..	..	2	1	..	1	6	6	2	3
Sixteenth	5	..	1	2	1	3	4	7	5	14	11	14
Seventeenth	14	27	11	18	16	13	18	7	15	16	15	9
Eighteenth	5	2	3	..	3	3	..	2	4	8	4	4
Nineteenth	31	50	38	38	31	38	25	53	59	98	99	48
Twentieth	..	1	10	1	4	1	1	2	1	2	2	6
Twenty-first.....	1	3	3	3	..	6	2	6	18	5	31	4
Twenty-second...	17	17	4	11	3	5	10	2	13	14	25	14
Twenty-third.....	3	1	..	1	1	..	8	4	4	2	2	1
Twenty-fourth....	..	3	2	..	..	..	4	1	4	1	..	1
Total	117	156	120	160	112	141	176	209	265	366	331	248
Scarlet Fever.												
First	1	..	..	1	..	..	1	..	..	1	1	1
Second	..	..	..	..	..	..	..	..	..	..	..	..
Third	..	..	..	..	..	..	..	..	..	..	..	..
Fourth	..	2	..	1	1	1	1	4	6	..	3	..
Fifth	1	..	1	2	1	..	..	2	1	1	6	2
Sixth.....	1	..	3	4	6	6	5	3	8	3	8	7
Seventh.....	10	4	6	11	..	8	6	3	12	10	5	4
Eighth	5	5	9	5	5	5	..	5	7	3	4	7
Ninth	8	9	12	11	6	8	5	8	6	7	7	7
Tenth.....	12	8	12	7	9	9	10	11	15	9	10	14
Eleventh	6	6	14	10	4	10	6	15	11	11	9	9
Twelfth	38	42	43	54	45	41	45	53	48	49	34	47
Thirteenth	6	8	5	10	8	1	6	8	8	11	6	6
Fourteenth	7	4	1	3	4	5	1	..	2	2	3	1
Fifteenth	..	4	4	8	1	..	2	2	3	1	1	3
Sixteenth	11	8	3	8	4	7	8	9	6	10	11	10
Seventeenth	11	11	16	14	10	10	10	12	16	15	12	25
Eighteenth	7	11	16	7	11	4	5	7	11	4	8	4
Nineteenth	62	40	37	43	30	32	41	34	33	51	48	31
Twentieth	8	9	8	11	6	6	13	9	12	5	16	6
Twenty-first.....	4	8	7	9	10	8	9	6	7	7	6	5
Twenty-second ...	16	20	14	16	23	37	27	18	16	12	22	20
Twenty-third.....	10	4	9	4	5	7	7	7	1	7	3	6
Twenty-fourth....	..	8	1	2	3	1	4	7	1	5	..	3
Total.....	224	211	221	241	192	206	212	223	230	224	223	218

and Scarlatina, by Wards, for the Year 1892—(Continued).

Week Ending—														
Mar. 26.	Apr. 2.	Apr. 9.	Apr. 16.	Apr. 23.	Apr. 30.	May 7.	May 14.	May 21.	May 28.	June 4.	June 11.	June 18.	June 25.	July 2.
4	6	3	4	3	12	14	5	8	7	10	8	11	7	10
1	1	5	1	2	6	2	5	10	6	8	3	2	8	3
1	5	4	1	5	3	3	7	6	7	5	6	8	11	4
13	9	8	3	10	13	11	18	40	34	25	25	33	18	14
18	10	9	11	10	18	17	24	13	23	14	12	11	11	7
2	7	8	9	11	15	21	13	13	17	12	9	19	7	4
64	64	89	76	132	119	138	123	121	107	85	91	49	39	42
4	17	13	10	12	18	29	34	40	47	49	35	28	19	21
15	18	22	17	25	12	27	16	14	18	13	9	19	7	13
32	42	65	65	60	73	90	110	103	132	72	72	47	22	21
2	18	18	20	24	38	80	79	97	59	44	34	17	22	4
1	..	17	3	3	3	9	15	11	5	1	8	6	6	4
368	430	502	448	529	628	733	758	807	747	565	551	421	318	278
6	1	3	1	4	5	6	2	2	3	6	3	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
4	..	3	2	3	2	2	..	3	1	..	..	3	3	..
3	5	1	3	5	2	2	2	2	1	..	1	..	..	..
5	7	..	2	1	1	3	..	1	3	3	1	..	..	..
3	7	4	6	6	6	10	4	4	2	7	6	5	2	2
4	1	6	7	7	10	4	7	4	4	4	..	3	2	1
8	9	10	8	8	8	10	5	10	10	10	3	3	6	1
8	5	5	7	13	8	16	6	7	4	6	4	5	5	3
11	9	12	10	8	7	13	10	4	7	3	3	4	3	4
45	50	62	40	41	53	44	51	44	21	27	17	16	11	11
10	11	5	6	6	7	11	4	3	4	7	7	5	11	5
5	1	1	1	1	2	3	4	4	1	5	1	..	2	..
..	1	3	1	3	3	3	3	4	7	3	2	1	4	1
4	4	6	10	4	8	12	6	2	3	8	3	2	3	1
12	11	18	12	12	12	21	17	18	26	17	9	7	10	3
3	5	8	3	14	5	7	9	6	11	11	2	4	..	2
41	33	39	42	48	58	48	35	37	20	22	16	18	13	7
12	16	10	7	14	14	17	14	14	10	14	12	10	1	2
6	12	16	13	9	9	6	6	12	6	5	4	4	1	..
23	20	26	41	30	32	33	29	38	27	21	18	8	8	6
1	3	7	4	4	11	11	8	8	8	5	4	1	3	2
..	2	5	3	2	4	6	3	6	4	6	4	..	2	..
214	213	250	229	244	267	288	225	233	183	190	120	100	90	52

Cases of Sickness Reported Weekly from Diphtheria, Measles

Wards.	Week Ending—											
	July 9.	July 16.	July 23.	July 30.	Aug. 6.	Aug. 13.	Aug. 20.	Aug. 27.	Sept. 3.	Sept. 10.	Sept. 17.	Sept. 24.
Thirteenth.....	8	16	13	10	15	12	8	8	12	2	5	4
Fourteenth	3	8	4	6	5	6	..	1	2	5	3	5
Fifteenth	6	4	4	..	4	5	1	.	..	..	1	..
Sixteenth.....	10	2	12	5	3	1	2	..	..	2	..	..
Seventeenth	8	10	9	14	10	9	5	3	2	1	6	1
Eighteenth	6	4	9	5	5	3	1	2	4	2	..	..
Nineteenth	43	23	19	19	21	14	4	8	7	2	..	4
Twentieth.....	28	26	19	13	12	7	8	3	4	2	3	3
Twenty-firs:.....	6	10	1	5	3	5	3	..	1	1	..	2
Twenty-second...	22	10	14	6	5	2	9	..	2	..	2	1
Twenty-third.....	6	5	6	3	23	1	1	1	..	1	..	..
Twenty-fourth....	14	..	6	..	..	..	..	..	..	..	..	..
Total.....	270	270	219	149	163	115	85	73	59	44	37	24
Scarlet Fever.												
First.....	2	4	..	..	..	1	..	..	3	1	1	3
Second.....	..	..	..	..	..	..	..	..	..	..	..	..
Third.....	4	3	1	1	..	1	..	..	..	..	..	..
Fourth	..	3	2	..	..	..	..	..	2	..	..	..
Fifth.....	1	1	..	1	2	..	2	..	1	..	1	2
Sixth	1	..	..	..	..	..	..	1	..	3	..	1
Seventh.....	3	1	2	3	..	1	1	1	2	2	1	3
Eighth	1	3	..	1	..	..	1	1	..	1	7	1
Ninth.....	3	3	1	6	1	1	1	2	..	..	1	1
Tenth	2	3	4	1	1	3	5	3	3	3	3	3
Eleventh.....	7	3	8	2	4	4	..	1	4	1	2	4
Twelfth.....	6	10	5	11	9	5	3	5	5	6	6	9
Thirteenth.....	4	2	3	..	1	3	3	1	1	4	1	1
Fourteenth	..	..	..	..	..	..	1	..	..	..	3	1
Fifteenth	..	..	1	..	..	..	..	..	1	..	1	..
Sixteenth.....	2	2	2	1	..	8	1	..	..	..	3	..
Seventeenth..	11	9	5	3	3	3	2	2	..	6	3	4
Eighteenth.....	..	1	3	3	3	5	1	2	..	3	..	..
Nineteenth	7	8	4	5	5	5	8	6	2	3	1	5
Twentieth.....	8	5	3	1	7	5	1	8	1	3	..	1
Twenty-first.....	4	4	2	2	1	2	..	..	3	1	2	1
Twenty-second ...	7	9	8	5	6	6	1	6	7	4	6	11
Twenty-third.....	3	4	1	2	2	1	1	..	1	1	2	..
Twenty-fourth....	1	..	..	..	1	1	2	1	..	1	..	1
Total.....	77	78	55	48	46	55	34	40	36	43	44	52

and Scarlatina, by Wards, for the Year 1892—(Continued).

Week Ending—														
Oct. 1.	Oct. 8.	Oct. 15.	Oct. 22.	Oct. 29.	Nov. 5.	Nov. 12.	Nov. 19.	Nov. 26.	Dec. 3.	Dec. 10.	Dec. 17.	Dec. 24.	Dec. 31.	Total.
2	2	2	2	3	..	..	2	2	3	2	..	2	1	327
3	4	1	4	2	4	1	3	..	..	1	8	3	..	165
..	..	1	..	1	..	..	3	..	..	1	4	..	7	139
..	..	1	..	..	..	..	4	3	2	2	3	2	2	397
1	1	..	1	2	3	2	..	2	3	4	8	8	12	512
..	..	3	3	3	6	3	2	5	8	6	17	7	11	320
5	8	10	9	3	13	6	4	20	39	22	37	21	12	2,320
1	1	..	4	2	7	4	8	8	5	16	5	13	10	619
..	1	..	3	..	1	..	..	..	2	1	2	1	4	379
3	1	1	1	..	5	..	1	1	1	3	1	1	1	1,234
1	2	..	1	2	..	1	..	..	3	1	1	1	..	643
..	..	..	1	..	1	1	1	..	..	..	..	1	1	134
30	31	26	40	32	60	28	55	60	77	78	126	100	93	12,828
1	..	..	..	..	1	1	..	2	2	..	1	1	..	74
..	..	..	..	..	..	..	..	..	..	..	..	..	..	....
..	..	..	..	..	..	..	..	..	1	..	..	..	..	12
..	..	..	..	..	2	..	..	..	..	..	1	1	..	56
1	4	..	..	..	..	2	..	..	..	1	..	..	..	63
..	..	2	2	..	2	2	1	1	..	3	..	2	1	103
..	4	2	..	1	3	3	1	2	..	2	6	1	3	201
1	..	2	2	1	..	2	..	1	1	2	1	1	..	154
..	..	2	1	..	4	..	4	1	..	5	4	6	4	254
3	4	3	2	2	4	2	4	5	5	4	5	9	3	317
2	..	1	3	1	3	1	2	2	5	4	4	9	2	298
7	8	16	16	15	25	13	18	15	21	14	37	41	32	1,430
3	2	3	2	3	1	2	3	3	2	4	1	..	3	241
1	..	1	1	..	..	..	..	..	..	..	..	1	1	74
..	1	..	..	1	2	2	..	1	..	..	1	1	..	80
1	3	2	..	1	2	..	5	2	3	4	4	2	1	220
3	5	2	10	5	1	7	2	2	5	1	5	4	9	479
2	4	6	4	4	..	6	3	3	4	4	2	5	2	255
2	8	4	5	5	10	16	19	11	27	10	16	11	13	1,175
5	4	5	2	5	13	6	..	4	10	6	7	9	12	407
2	3	6	4	5	3	6	7	7	6	2	4	3	8	283
1	2	6	7	3	3	6	11	6	10	4	9	15	5	765
4	..	1	1	3	2	3	2	4	2	4	11	3	..	208
..	..	..	2	..	4	..	1	2	6	5	11	5	4	130
39	52	64	64	55	85	80	83	74	110	79	130	130	103	7,279

Marriages, by Months, for Year 1892, *Showing*

Months.	Total.	White.		Colored.	
		Male.	Female.	Male.	Female.
January	1,196	1,173	1,173	23	23
February	1,332	1,298	1,297	34	35
March	1,334	1,318	1,319	16	15
April	1,295	1,264	1,264	31	31
May	1,272	1,242	1,242	30	30
June	1,552	1,529	1,530	23	22
July	1,154	1,140	1,141	14	13
August	1,155	1,146	1,146	9	9
September	1,298	1,273	1,273	25	25
October	1,315	1,288	1,289	27	26
November	1,519	1,492	1,493	27	26
December	1,579	1,542	1,544	37	35
Total	16,001	15,705	15,711	296	290

Sex, Color, Previous Condition and Nativity.

Single.		Widowed.		Native.		Foreign.		Born at Sea.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	M.	F.
1,070	1,076	126	120	491	552	705	645	..	..
1,165	1,211	167	121	453	524	879	808	..	..
1,176	1,210	158	124	429	521	905	812	..	1
1,147	1,165	148	130	503	583	792	711	..	1
1,090	1,140	182	132	443	511	829	761	..	..
1,398	1,424	154	128	579	681	973	871	..	..
1,008	1,018	146	136	421	479	732	675	1	..
1,010	1,034	145	121	336	385	819	770	..	..
1,113	1,155	185	143	477	524	821	773	..	1
1,155	1,180	160	135	504	577	811	737	..	1
1,298	1,345	221	174	572	653	947	866	..	..
1,378	1,426	201	153	523	607	1,056	972	..	..
14,008	14,384	1,993	1,617	5,731	6,596	10,269	9,401	1	4

Births Reported by

Week.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.
Date of beginning—Week ending	Jan. 7	Jan. 6	Jan. 4	Jan. 10	Jan. 9	Jan. 8	Jan. 6.	Jan. 5	Jan. 4
First	478	468	399	489	497	519	400	504	412
Second	392	399	484	442	531	430	520	552	550
Third	357	423	452	547	455	475	480	580	558
Fourth	341	409	467	518	509	474	464	550	493
Fifth	446	452	497	459	500	447	495	589	384
Sixth	490	417	464	515	466	502	484	460	345
Seventh	471	387	468	481	417	498	467	467	376
Eighth	415	428	420	494	505	560	401	400	541
Ninth	426	491	409	479	486	503	528	543	520
Tenth	441	402	505	477	457	471	511	461	480
Eleventh	364	440	407	490	525	457	479	520	520
Twelfth	365	380	369	443	448	435	490	507	760
Thirteenth	371	446	444	471	499	478	511	700	640
Fourteenth	359	384	403	495	443	488	487	430	480
Fifteenth	263	422	405	406	491	376	435	410	420
Sixteenth	337	361	346	425	415	445	367	440	405
Seventeenth	309	387	319	418	462	334	420	502	405
Eighteenth	388	382	352	433	374	413	460	450	359
Nineteenth	349	373	367	470	437	408	352	448	410
Twentieth	283	384	339	415	403	440	378	400	440
Twenty-first	347	378	409	385	370	400	416	364	480
Twenty-second	382	411	337	615	416	469	373	360	360
Twenty-third	311	351	433	412	467	417	440	507	344
Twenty-fourth	326	342	338	537	393	405	500	378	497
Twenty-fifth	318	446	360	477	416	453	445	400	520
Twenty-sixth	411	367	418	500	486	386	442	440	546
Twenty-seventh	390	369	426	627	424	423	410	332	334
Twenty-eighth	433	495	486	480	451	500	623	480	489
Twenty-ninth	375	351	482	532	514	463	480	680	434
Thirtieth	403	399	504	580	405	472	500	520	433
Thirty-first	386	554	475	522	530	487	505	520	538
Thirty-second	448	393	485	521	495	448	508	432	526
Thirty-third	431	401	503	518	462	496	513	467	584
Thirty-fourth	411	440	513	532	460	490	505	581	464
Thirty-fifth	456	478	406	566	424	498	511	520	582
Thirty-sixth	363	422	474	535	468	459	501	548	482

Weeks, since 1871.

1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
Jan. 10	Jan. 8	Jan. 7	Jan. 6	Jan. 5	Jan. 10	Jan. 9	Jan. 8	Jan. 7	Jan. 5	Jan. 4	Jan. 10	Jan. 9
577	640	473	595	704	627	840	818	422	824	637	890	1,067
472	561	583	546	519	636	530	651	518	734	779	875	920
557	521	501	585	642	556	674	560	610	770	699	804	976
508	579	531	548	552	579	604	585	685	715	774	849	927
523	479	525	580	570	718	640	710	806	761	764	866	1,047
564	520	472	564	545	599	682	595	785	809	699	862	906
515	560	512	584	590	574	600	661	792	703	755	821	978
574	480	570	560	523	588	605	646	914	692	646	775	909
549	520	592	628	700	635	712	700	944	729	723	952	1,043
531	580	580	523	671	568	598	590	792	782	752	875	941
521	484	569	528	569	534	594	602	561	673	714	805	959
588	569	508	557	542	509	578	655	698	655	755	653	938
484	457	518	505	570	597	612	636	635	597	674	822	983
516	523	513	491	578	525	553	589	571	836	772	703	873
506	386	476	622	540	598	558	553	652	552	712	791	918
479	423	495	540	507	505	535	620	626	625	637	743	836
442	448	498	529	541	539	536	553	536	668	622	797	970
462	400	502	445	529	541	569	570	589	541	683	764	976
451	411	440	446	490	479	430	575	467	692	671	733	941
423	480	494	513	450	537	489	486	558	627	615	701	902
502	520	465	443	470	423	511	551	546	761	744	624	886
490	422	486	542	581	600	490	621	564	658	480	829	772
542	475	477	502	573	517	600	586	672	696	1,035	788	888
518	453	464	502	581	450	561	585	656	654	700	677	844
519	458	512	569	574	567	604	602	679	687	746	697	921
533	507	433	540	552	451	617	614	654	712	850	1,288	933
519	384	491	503	471	538	553	592	665	766	565	1,141	996
534	459	465	580	678	522	629	676	865	745	1,114	912	899
586	541	514	555	621	456	589	611	676	741	765	1,001	892
514	558	451	572	585	566	602	604	677	689	806	1,076	822
510	525	551	570	627	596	633	680	821	824	754	1,109	1,144
515	560	506	550	625	766	671	740	680	722	838	918	932
539	566	523	625	557	602	541	616	711	766	927	1,112	931
576	511	567	540	565	578	650	701	721	670	755	914	1,058
640	497	550	564	600	592	682	830	871	692	724	1,061	930
486	436	509	571	624	588	622	691	738	884	828	1,005	975

Births Reported by Weeks,

Week.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.
Thirty-seventh	409	479	513	438	458	457	447	499	543
Thirty-eighth	455	448	438	498	452	463	501	491	493
Thirty-ninth	389	543	487	499	464	419	521	582	529
Fortieth	414	418	486	496	500	501	509	379	624
Forty-first	556	444	427	528	444	433	504	520	521
Forty-second	378	431	432	492	481	452	518	539	563
Forty-third	410	444	454	461	420	447	644	506	527
Forty-fourth	511	483	420	523	449	471	616	515	433
Forty-fifth	496	419	480	510	480	379	440	420	519
Forty-sixth	432	441	454	457	429	564	531	495	494
Forty-seventh	421	480	443	475	431	498	500	426	471
Forty-eighth	393	385	469	520	431	435	406	417	563
Forty-ninth	441	445	460	497	514	503	586	549	529
Fiftieth	430	453	496	481	368	457	625	600	534
Fifty-first	440	419	454	473	455	433	600	680	533
Fifty-second	415	321	383	516	436	412	667	490	473
	....	....	448	....	....	....	....	....	533
Date of ending—Week ending	Dec. 30	Dec. 28	Jan. 3	Jan. 2	Jan. 1	Dec. 30	Dec. 29	Dec. 28	Jan. 3

since 1871—(Continued).

1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
530	432	589	580	542	585	532	755	762	648	758	934	864
540	498	514	613	684	602	680	742	657	810	679	1,000	913
597	489	606	582	684	659	594	663	737	730	764	1,052	954
522	505	601	600	621	515	622	747	749	848	823	1,071	1,080
551	610	523	639	632	620	604	712	679	705	669	962	804
558	531	605	617	673	609	651	765	722	756	703	1,031	930
535	512	529	592	559	700	725	670	742	737	638	893	1,036
504	536	536	595	582	545	648	757	735	821	715	1,009	946
587	518	547	585	520	602	592	736	710	803	713	1,065	849
513	449	533	541	622	545	641	654	661	758	800	926	1,034
497	521	597	562	607	533	555	620	840	725	840	947	976
590	546	515	574	534	686	656	686	735	642	718	959	1,064
572	537	600	592	589	610	617	766	794	769	1,057	1,029	899
530	494	584	568	640	640	575	722	753	741	824	891	1,004
423	515	503	545	665	423	497	664	701	716	769	794	936
523	544	621	457	464	648	636	712	628	576	694	1,081	1,000
....	....	....	....	659	....	....	....	....	....	989	....	....
Jan. 1	Dec. 31	Dec. 30	Dec. 29	Jan. 3	Jan. 2	Jan. 1	Dec. 31	Dec. 29	Dec. 28	Jan. 3	Jan. 2	Dec. 31

Between 1880 and 1889 no full statistical report was published by the Health Department. printed for the first time. Changes of classification have been made during those years, but throughout, would involve more labor than it has been possible to expend upon them, and there-

This publication makes the series of annual reports of the Health Department fairly complete the Health Department, Mr. Charles G. Wilson, who has taken a deep interest in the statistical valuable statistical tables, which those who are interested in the vital statistics of this city have

Deaths by Cause, Age, Sex,

Order.	Causes of Death.		Nativity.				Colored.		Under 1 Year.		1	
			United States.		Foreign.							
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Miasmatic.*											
	Small-pox and varioloid		173	138	89	51	18	2	25	39	28	22
	Varicella		1	3	..	..	..	..	..	1	..	2
	Measles		181	203	29	16	..	3	52	62	71	73
	Scarlatina		902	923	54	85	..	1	47	50	164	152
	Diphtheria		1,039	1,083	72	55	3	4	101	95	230	226
	Croup		532	447	30	29	4	2	64	36	141	118
	Quinsy (tonsilitis, angina maligna, etc.)		8	8	1	..	..	..	1	1	2	2
	Parotitis		4	2	..	1	..	..	2	..	..	..
	Whooping-cough		128	145	7	6	1	4	73	63	33	54
	Erysipelas		59	52	57	24	2	..	41	32	4	2
	Pyæmia		1	1	2	..	..	..	..	1	..	..
	Carbuncle		4	..	3	3	..	..	..	..	..	..
	Dysentery	4,270	115	72	70	71	2	1	39	27	31	14
	Diarrhœa		1,665	1,498	161	173	30	26	1,368	1,176	279	288
	Cholera (Asiatic)		..	..	..	..	..	..	..	..	..	..
	Cholera morbus		9	6	31	34	..	1	..	..	..	..
	Entero-colitis		194	161	2	8	2	3	143	119	41	29
	Cerebro-spinal fever		232	184	22	23	6	2	62	29	23	22
	Typhus fever		48	11	85	16	5	..	..	..	..	..
	Typhoid fever		131	97	137	81	9	1	..	..	2	1
	Continued fever		4	6	2	3	..	..	1	..	2	..
	Remittent fever		66	57	24	35	1	..	11	8	7	8
	Intermittent fever		88	75	35	46	2	2	15	11	13	10
	Typho-malarial fever		46	44	36	22	3	3	..	..	..	..
	Congestive chills		4	8	2	2	..	..	1	..	..	..
	Goitre		..	..	..	2	..	..	..	..	..	..
	Puerperal fever (other puerperal diseases see order of women)		..	24	..	29	.	2	..	..	..	..
	Total miasmatic diseases		5,634	5,248	951	815	88	57	2,046	1,750	1,071	1,023

PREVIOUS YEARS.

In order to preserve the records of those intervening years in a permanent form they are now
an attempt to alter or correct the tables, in order to have them correspond with one another
fore they are given without change, as they were made up, year by year.

from the year of its organization, 1866, to the present time ; and to the efforts of the President of
branch of the Health Department, we are indebted for the compilation and publication of these
been so long deprived of.

Nativity and Color— Year 1881.

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
13	16	12	13	9	5	87	95	22	22	4	4	17	15	33	15	29	12	25	12
..	..	1	..	..	..	1	3	..	..	..	..	..	..	..	..	..	..	..	..
36	33	25	26	9	8	193	202	14	13	2	1	..	1	..	1	..	..	1	..
168	212	166	163	133	117	678	694	231	251	27	27	6	8	3	11	5	8	3	5
220	209	166	164	132	132	849	826	216	258	24	21	10	9	3	10	4	3	..	2
121	112	100	96	51	45	477	407	83	66	1	2	..	..	1	..	..	..	..	..
..	1	2	..	..	1	5	5	2	3	..	..	..	..	..	..	1	..	..	..
1	..	..	1	..	..	3	1	..	2	..	..	1	..	..	..	..	..	..	..
16	14	5	9	2	7	129	147	5	4	1	..	..	..	..	..	..	..	..	..
1	2	1	..	..	..	47	36	1	1	..	1	..	2	3	5	2	7	7	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	5	1	5	4	1	84	52	16	3	5	3	8	2	6	7	3	3	7	7
28	49	14	8	7	6	1,696	1,527	7	11	1	1	4	2	3	3	3	5	5	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	1	..	1	2	..	2	..	2	1	3	..	1	3	1	2
5	8	..	3	1	1	190	160	2	3	1	..	..	..	..	..	..	..	..	..
21	18	17	12	16	7	139	88	42	49	24	25	11	15	8	6	8	4	4	6
..	..	..	..	..	..	..	..	..	..	..	..	5	2	7	4	16	3	20	7
2	5	4	1	2	5	10	12	11	10	15	13	32	33	54	34	41	15	36	20
..	..	..	..	..	..	3	..	..	1	..	..	..	..	..	3	..	2	..	..
8	7	5	6	5	2	36	31	8	13	2	4	5	2	5	2	5	2	3	5
11	4	9	8	2	4	50	37	14	9	2	4	5	4	7	7	4	10	4	5
5	4	2	1	..	3	7	8	11	8	3	1	5	9	12	9	9	9	5	4
..	..	..	1	..	..	1	1	1	1	1	1	..	..	..	..	..	..	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	12	..	9	..	14
665	699	530	517	373	345	4,685	4,334	688	728	115	108	111	109	148	131	131	95	121	94

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Miasmatic.*												
	Small-pox and varioloid	15	6	9	..	10	2	2	1	5	2	1	2
	Varicella	..	..	..	..	..	..	..	..	..	..	..	..
	Measles	..	1	..	..	..	..	..	..	..	..	..	..
	Scarlatina	1	1	1	1	1	..	..	..	..	..	..	1
	Diphtheria	..	..	3	4	1	3	1	..	..	1	..	..
	Croup	..	1	..	..	..	..	..	..	..	..	..	..
	Quinsy (tonsilitis, angina maligna, etc.)	..	..	..	..	..	..	1	..	..	..	..	..
	Parotitis	..	..	..	..	..	..	..	..	..	..	..	..
	Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..
	Erysipelas	7	2	9	4	6	..	7	..	6	4	7	3
	Pyæmia	..	..	2	..	..	..	1	..	..	..	..	..
	Carbuncle	..	..	1	..	1	..	..	1	1	..	1	..
	Dysentery	7	8	5	6	7	4	4	11	9	10	5	5
	Diarrhœa	4	8	5	6	6	7	4	9	14	7	22	9
	Cholera (Asiatic)	..	..	..	..	..	..	..	..	..	..	..	..
	Cholera morbus	2	2	3	6	2	1	1	2	4	6	8	6
	Entero-colitis	..	2	..	..	1	..	..	1	1	1	1	..
	Cerebro-spinal fever	4	8	3	4	4	1	1	..	3	1	..	..
	Typhus fever	21	4	14	2	11	2	13	1	10	1	4	1
	Typhoid fever	8	7	18	5	9	10	8	6	10	2	7	4
	Continued ever	..	..	..	2	1	..	1	..	..	1	..	..
	Remittent fever	5	7	5	2	2	..	1	2	3	3	1	4
	Intermittent ever	5	6	4	7	5	3	2	3	4	6	5	4
	Typho-malarial fever	3	4	5	3	2	1	5	2	7	1	2	2
	Congestive chills	..	..	..	..	2	..	..	..	..	..	1	1
	Goitre	..	..	..	..	..	..	..	..	..	..	..	..
	Puerperal fever (other puerperal diseases, see order of women)	..	10	..	2	..	2	..	..	..	..	..	..
	Total miasmatic diseases	82	77	87	54	71	36	52	39	77	46	63	42

and Color—Year 1881—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
2	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	262	189	451
..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	1	3	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	210	219	429
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	956	1,008	1,964
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1,111	1,138	2,249
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	562	476	1,038
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	8	17
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	3	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	135	151	286
5	3	2	2	3	3	3	2	1	1	..	..	..	..	..	..	116	76	192
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	4
..	1	1	..	..	1	..	..	1	..	1	..	..	..	..	..	7	3	10
5	7	4	6	6	5	3	4	..	..	1	..	..	..	..	..	185	143	328
13	10	13	17	11	19	8	14	4	9	2	3	1	2	..	..	1,826	1,671	3,497
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	3	1	4	3	1	..	2	..	..	..	..	..	..	..	..	40	40	80
..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	196	169	365
1	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	254	207	461
9	..	2	..	1	..	..	..	..	..	..	..	..	..	..	..	133	27	160
7	3	2	2	..	1	..	1	..	..	..	..	..	..	..	..	268	178	446
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	9	15
1	5	3	3	1	4	4	1	..	..	..	..	..	..	..	..	90	92	182
5	3	4	3	2	4	..	4	1	2	..	..	..	..	..	..	123	121	244
3	3	3	1	..	..	..	1	..	..	..	..	..	..	..	..	82	66	148
..	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	6	10	16
..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	53	53
57	41	38	40	27	42	18	30	7	12	4	3	1	2	..	..	6,585	6,063	12,648

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Enthetic or Inoculated.*										
	Syphilis	56	51	25	19	2	4	37	31	5	4
	Malignant pustule	1	..	..	..	..	..	1	..	..	..
	Hydrophobia	3	..	..	..	..	..	..	..	..	..
	Total enthetic or inoculated diseases	60	51	25	19	2	4	38	31	5	4
3	*Dietetic.*										
	Inanition (privation, etc.)	193	158	10	7	6	1	191	161	7	1
	Scurvy	..	2	1	2	..	..	..	2	..	..
	Purpura	10	10	3	1	..	..	3	4	..	..
	Alcoholism *a.* Intemperance	55	23	105	53	..	1	..	..	..	..
	Alcoholism *b.* Delirium tremens	11	..	21	1	..	..	..	..	..	..
	Total dietetic diseases	269	193	140	64	6	2	194	167	7	1
4	*Parasitic.*										
	Aphthæ	7	4	..	..	..	..	7	4	..	..
	Hydatid of uterus	..	..	..	1	..	..	..	..	..	..
	Hydatid of liver	..	..	1	1	..	..	..	..	..	..
	Worms	5	2	1	..	..	1	..	..	..	..
	Trichinosis	..	..	1	1	..	..	..	..	..	..
	Total parasitic diseases	12	6	3	3	..	1	7	4	..	..
	Total zymotic class	5,975	5,498	1,119	901	96	64	2,285	1,952	1,083	1,028
1	*Diathetic.*										
	Gout	3	3	1	2	..	..	..	..	..	..
	Rheumatism	43	50	52	62	2	3	1	2	1	1
	Anæmia	9	12	4	9	..	1	5	4	..	..
	Cancer	51	134	193	328	1	6	..	1	..	1
	Noma (cancrum oris)	1	3	..	..	..	..	..	1	..	1
	Total diathetic diseases	107	202	250	401	3	10	6	8	1	3
2	*Tubercular.*										
	Scrofula	37	23	3	1	2	..	24	10	8	3
	Lumbar abscess (psoas abscess, etc.)	..	3	2	1	..	..	..	1	..	..
	Tabes mesenterica and marasmus	450	356	8	12	11	10	381	299	66	54
	Phthisis pulmonalis	1,218	1,071	1,695	1,328	85	82	39	29	24	28

and Color—Year 1881—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	1	..	..	..	1	43	37	..	1	..	..	1	..	2	4	6	8	9	5
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..
1	1	..	..	..	1	44	37	..	1	3	..	1	..	2	4	6	8	9	5
..	..	1	..	..	..	199	162	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	4	4	..	..	1	..	1	..	2	1	1	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	1	1	7	3	13	7	18	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	8	..
..	..	2	..	..	..	203	168	1	..	2	..	2	1	9	4	17	7	26	10
..	..	..	..	..	..	7	4	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
3	1	..	..	1	..	4	1	2	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	1	..	..	1	..	11	5	2	1	..	..	..	..	..	..	..	..	1	..
669	701	532	517	374	346	4,943	4,544	691	730	120	108	114	110	159	139	154	110	157	109
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
1	1	2	..	..	1	5	5	8	8	4	12	6	3	4	8	6	6	7	8
..	1	..	..	..	..	5	5	1	..	1	..	..	..	1	1	..	2	..	1
2	..	..	2	..	1	2	5	..	1	1	..	6	2	1	2	8	9	8	23
..	..	..	..	..	..	..	2	..	1	..	..	..	..	..	..	..	..	1	..
3	2	2	2	..	2	12	17	9	10	6	13	12	5	6	11	14	17	16	32
5	4	..	..	..	2	37	19	1	2	1	..	..	..	..	2	..	..	1	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	1
4	9	1	2	3	1	455	365	..	1	2	2	1	..	..	..	..	..	..	..
14	8	5	9	7	2	89	76	24	25	23	41	120	164	358	335	376	392	405	333

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Enthetic or Inoculated.*												
	Syphilis	3	3	4	4	5	3	2	3	2	1	2	..
	Malignant pustule	..	..	..	..	..	..	..	..	..	..	..	..
	Hydrophobia	..	..	..	..	..	..	..	..	..	..	..	..
	Total enthetic or inoculated diseases	3	3	4	4	5	3	2	3	2	1	2	..
3	*Dietetic.*												
	Inanition (privation, etc.)	..	..	..	..	1	..	..	..	..	..	..	1
	Scurvy	..	..	1	1	..	..	..	..	..	..	..	1
	Purpura	2	3	..	1	1	..	1	..	..	..	..	1
	Alcoholism *a.* Intemperance	28	9	30	19	22	8	19	11	8	5	9	3
	Alcoholism *b.* Delirum tremens	3	..	8	..	2	1	4	..	2	..	2	..
	Total dietetic diseases	33	12	39	21	26	9	24	11	10	5	11	6
4	*Parasitic.*												
	Aphthæ	..	..	..	..	..	..	..	..	..	..	..	..
	Hydatid of uterus	..	..	..	1	..	..	..	..	..	..	..	..
	Hydatid of liver	..	1	..	..	..	..	..	..	..	..	..	..
	Worms	..	..	..	..	..	..	..	..	..	..	..	..
	Trichinosis	..	..	..	..	..	..	..	..	1	..	..	..
	Total parasitic diseases	..	1	..	1	..	..	..	..	1	..	..	..
	Total zymotic class	118	93	130	80	102	48	78	53	90	52	78	48
1	*Diathetic.*												
	Gout	..	..	1	1	..	..	1	..	..	..	1	..
	Rheumatism	3	8	4	1	8	5	6	7	9	8	7	12
	Anæmia	..	1	1	1	..	2	..	2	2	2	..	1
	Cancer	11	41	22	54	25	52	43	87	28	47	33	53
	Noma (cancrum oris)	..	..	..	..	..	..	..	..	..	..	..	..
	Total diathetic diseases	14	50	28	57	33	59	50	96	39	57	41	66
2	*Tubercular.*												
	Scrofula	..	..	..	..	..	1	..	..	..	..	..	..
	Lumbar abscess (psoas abscess, etc.)	..	..	1	..	..	..	..	..	..	..	..	1
	Tabes mesenterica and marasmus	..	..	..	..	..	..	..	..	..	..	..	..
	Phthisis pulmonalis	378	315	313	219	245	134	201	108	127	76	101	67

and Color—Year 1881—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
1	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	81	70	151
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
1	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	85	70	155
1	1	..	..	..	..	1	1	..	..	..	..	..	..	..	..	203	165	368
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	4	5
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	13	11	24
2	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	160	76	236
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	32	1	33
3	1	2	1	..	..	1	1	..	..	..	..	..	..	..	..	409	257	666
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	4	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	2	8
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	15	9	24
61	42	40	41	28	43	19	31	7	13	4	3	1	2	..	..	7,094	6,399	13,493
..	1	1	..	..	1	..	1	..	..	..	..	..	..	..	..	4	5	9
10	9	3	7	3	2	1	2	1	1	..	..	..	..	..	..	95	112	207
1	..	..	2	1	..	..	1	..	..	..	..	..	..	..	..	13	21	34
32	38	12	29	7	12	4	5	..	1	..	..	1	1	..	..	244	462	706
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	4
43	48	16	38	11	15	5	9	1	2	..	..	1	1	..	..	357	603	960
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40	24	64
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	2	4	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	458	368	826
85	40	37	31	19	32	8	8	3	3	..	..	1	..	..	..	2,913	2,399	5,312

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Tubercular.*										
	Hydrocephalus and tubercular meningitis	343	294	26	12	8	4	149	114	91	85
	Rachitis	24	11	..	2	1	1	13	4	6	8
	Hodgkin's disease	..	1	..	..	..	..	..	..	..	..
	Strumous suppuration of cervical and submaxillary glands	1	1	..	1	..	..	1	1	..	..
	Total tubercular diseases	2,073	1,760	1,734	1,357	107	97	607	458	195	178
	Total constitutional class	2,180	1,962	1,984	1,758	110	107	613	466	196	181
1	*Nervous.*										
	Spinal atrophy	1	..	..	..	..	..	..	..	..	..
	Meningitis	355	298	61	50	5	6	145	110	77	70
	Encephalitis	21	15	6	4	1	..	6	4	6	4
	Softening of brain	24	18	40	28	1	1	..	..	..	..
	Apoplexy	118	74	222	176	5	6	4	4	..	1
	Insanity	22	23	31	49	1	1	..	..	..	..
	Epilepsy	33	16	17	12	..	1	..	..	..	1
	Convulsions	407	329	10	12	16	8	316	260	78	59
	Laryngismus stridulus	10	3	1	..	..	..	5	2	3	..
	Paralysis	33	17	74	28	1	1	1	1	..	..
	Paraplegia	4	4	2	5	1	1	..	..	..	..
	Hemiplegia	10	12	8	18	1	2	..	..	..	..
	Chorea	..	3	1	..	..	..	..	1	..	..
	Tetanus	1	3	5	1	..	..	..	..	..	..
	Trismus nascentium	27	19	..	..	..	..	27	19	..	..
	Myelitis	7	12	16	12	..	..	..	2	..	..
	Congestion of brain	100	96	14	14	1	..	49	35	30	26
	Embolism of brain	4	8	13	7	..	..	..	..	..	..
	Abscess of brain	7	2	2	1	1	..	4	..	1	1
	Tumor of brain	9	6	6	5	..	..	..	1	..	..
	Nervous prostration from overstudy	1	..	..	..	..	..	..	..	..	..
	Progressive muscular atrophy	2	..	..	..	1	..	..	..	..	..
	Spinal sclerosis	4	..	3	1	..	..	..	..	..	..
	Atheroma of cerebral arteries	..	..	1	1	..	..	..	..	..	..

and Color—Year 1881—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
38	46	24	19	13	11	315	275	29	22	8	2	..	1	4	2	..	1	4	1
1	..	..	..	1	..	21	12	3	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
62	67	30	30	24	16	918	749	57	52	34	45	121	165	362	340	376	393	410	335
65	69	32	32	24	18	930	766	66	62	40	58	133	170	368	351	390	410	426	367
..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
37	26	24	16	17	11	300	233	22	30	17	16	8	9	4	7	9	12	9	6
1	3	1	1	..	1	14	13	4	1	1	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	1	..	1	2	1
2	1	..	..	..	..	6	6	2	..	1	2	1	3	4	5	8	5	11	5
..	..	..	..	..	..	..	..	..	..	2	..	1	..	2	8	2	7	2	7
1	1	1	..	..	1	2	3	3	..	..	2	6	2	6	1	6	4	8	4
17	15	3	4	1	1	415	339	2	..	..	2	..	..	..	..	..	..	..	..
2	1	..	..	..	..	10	3	1	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	2	1	1	1	1	..	..	..	..	1	4	..	6	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	1	..	..
..	..	..	1	..	..	..	2	..	..	..	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	2	2	1
..	..	..	..	..	..	27	19	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	2	..	..	..	..	..	1	5	3	1	4	1	6
6	13	3	8	2	3	90	85	5	7	1	3	2	2	1	1	2	..	2	2
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..
..	..	..	..	..	1	5	2	..	..	1	..	1	1	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	1	..	..	3	2	..	..	1	..	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Tubercular.*												
	Hydrocephalus and tubercular meningitis	2	2	..	..	4	..	..	..	..	..	2	..
	Rachitis	..	..	..	..	..	..	..	..	..	..	..	..
	Hodgkin's disease	..	..	..	..	..	..	..	..	..	..	..	..
	Strumous suppuration of cervical and submaxillary glands	..	..	..	..	..	1	..	..	..	..	..	..
	Total tubercular diseases	380	317	314	219	249	136	201	108	127	76	103	68
	Total constitutional class	394	367	342	276	282	195	251	204	166	133	144	134
1	*Nervous.*												
	Spinal atrophy	..	..	..	..	..	..	..	..	..	..	..	..
	Meningitis	9	6	10	6	9	6	4	6	..	2	3	5
	Encephalitis	2	..	..	..	1	1	1	..	1	..	3	2
	Softening of brain	4	..	4	3	4	7	5	3	6	2	12	4
	Apoplexy	21	10	32	10	39	19	41	24	39	28	46	41
	Insanity	11	7	3	10	4	11	5	3	4	6	4	4
	Epilepsy	4	3	2	1	1	3	2	4	1	..	3	..
	Convulsions	..	..	..	..	..	..	..	..	..	..	..	..
	Laryngismus stridulus	..	..	..	..	..	..	..	..	..	..	..	..
	Paralysis	17	5	18	1	16	1	12	3	10	2	4	8
	Paraplegia	..	1	1	..	2	1	..	..	..	1	..	2
	Hemiplegia	1	..	..	..	1	2	2	3	..	2	2	6
	Chorea	..	..	..	1	..	..	..	..	..	..	..	..
	Tetanus	1	1	..	..	..	..	..	..	1	..	..	..
	Trismus nascentium	..	..	..	..	..	..	..	..	..	..	..	..
	Myelitis	4	2	3	2	2	..	2	2	5	1	..	..
	Congestion of brain	4	1	1	1	..	1	1	..	2	1	1	1
	Embolism of brain	1	..	2	..	..	..	3	1	1	..	1	4
	Abscess of brain	..	..	1	..	..	..	1	..	..	..	..	..
	Tumor of brain	4	1	2	2	1	2	..	..	1	..	1	..
	Nervous prostration from overstudy	..	..	..	..	..	..	..	..	..	..	1	..
	Progressive muscular atrophy	2	..	..	..	..	..	..	..	..	..	..	..
	Spinal sclerosis	..	..	..	..	1	..	2	..	..	..	2	..
	Atheroma of cerebral arteries	..	..	..	..	..	..	..	..	1	..	..	..

and Color—Year 1881—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	369	306	675
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	24	13	37
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
85	40	37	31	21	32	8	8	3	3	..	..	1	..	..	..	3,807	3,117	6,924
128	88	53	69	32	47	13	17	4	5	..	..	2	1	..	..	4,164	3,720	7,884
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1
7	1	4	2	..	1	1	..	..	..	..	..	..	..	..	..	416	348	764
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	27	19	46
6	6	8	5	4	4	4	5	3	3	..	1	..	..	..	..	64	46	110
33	26	25	22	19	19	10	17	1	6	1	2	..	..	..	..	340	250	590
3	4	4	..	4	1	1	3	1	1	..	..	..	..	..	..	53	72	125
4	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	50	28	78
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	417	341	758
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	3	14
4	5	3	5	2	4	7	4	..	3	..	1	..	..	..	..	107	45	152
..	..	..	1	..	..	2	1	..	..	..	1	..	..	..	..	6	9	15
3	4	2	4	5	1	1	1	1	3	..	..	..	1	..	..	18	30	48
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	4	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	27	19	46
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23	24	47
..	2	1	1	1	1	..	..	..	1	..	..	..	..	..	..	114	110	224
4	..	2	3	3	3	..	2	..	..	..	..	..	..	..	..	17	15	32
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	3	12
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	11	26
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
1	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	7	1	8
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Nervous.*										
	Beri-beri	..	..	1	..	..	..	..	..	..	..
	Progressive locomotor ataxia	3	3	4	..	..	..	..	..	..	..
	Softening of spinal cord	1	..	2	..	..	..	..	..	..	..
	Tabes dorsalis	..	..	7	1	..	..	..	..	..	..
	Direct effect of solar heat	23	11	85	15	1	..	8	6	2	1
	Sclerosis of medulla oblongata	1	..	..	..	..	..	..	..	..	..
	Neuralgia	1	1	..	..	..	..	..	..	..	..
	Total nervous diseases	1,229	973	632	440	36	27	565	445	197	163
2	*Circulatory.*										
	Pericarditis	18	16	27	22	..	..	3	1	2	..
	Aneurism	16	5	35	8	2	1	..	..	..	..
	Aneurism of heart	1	1	1	1	..	..	..	..	..	..
	Embolism	1	1	..	2	..	..	..	..	..	..
	Atheroma of heart	1	..	..	..	..	..	..	..	..	..
	Hypertrophy of the heart	35	33	48	40	1	1	..	..	..	..
	Valvular disease of the heart	162	150	223	228	13	10	3	4	..	1
	Ossification of arteries	1	..	..	1	..	..	..	..	..	..
	Ossification of valves	1	..	..	..	..	..	..	..	..	..
	Syncope	..	1	..	..	..	..	..	1	..	..
	Fatty degeneration of the heart	16	16	23	32	1	..	..	..	..	..
	Endocarditis	10	14	14	14	..	2	1	..	..	..
	Disease of the heart	28	19	46	35	3	2	..	1	..	..
	Angina pectoris	7	4	6	4	1	..	..	..	1	..
	Phlebitis	1	..	1	2	..	..	1	..	..	..
	Epistaxis	2	1	..	1	..	..	..	..	..	..
	Atheromatous degeneration of arteries	1	1	2	2	..	..	..	..	..	..
	Calcification of coronary arteries	1	..	..	..	..	..	..	..	..	..
	Hemorrhage from rupture of varicose vein	..	..	..	1	..	..	..	..	..	..
	Total circulatory diseases	302	262	426	383	21	16	8	7	3	1

and Color—Year 1881—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	2	..	..	1	..	14	9	2	2	1	..	5	..	7	..	10	2	20	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
69	62	33	30	22	18	886	718	42	43	27	26	28	20	30	29	46	39	66	35
1	..	..	..	1	..	7	1	..	4	2	2	3	1	2	1	4	5	3	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	3	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	1	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	1	..	1	5	5	2	2	3	1	4	3	4	7	5
..	2	1	1	1	3	5	11	15	16	12	22	18	18	23	14	20	12	29	23
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	1	2	..	3
..	1	..	..	1	..	2	1	..	3	1	2	1	2	3	3	3	3	1	1
..	..	..	..	..	..	..	1	..	2	4	3	2	2	1	2	3	1	8	1
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	1	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	3	2	2	3	3	17	16	18	30	25	31	26	26	32	24	36	32	53	37

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Nervous.*												
	Beri-beri	..	..	..	..	..	..	..	..	..	..	..	..
	Progressive locomotor ataxia	..	..	3	..	1	..	..	1	..	..	2	..
	Softening of spinal cord	1	..	..	..	..	..	..	..	..	..	1	..
	Tabes dorsalis	..	..	1	1	1	..	..	..	1	..	4	..
	Direct effect of solar heat	14	..	8	1	11	1	5	2	3	2	5	1
	Sclerosis of medulla oblongata	..	..	..	..	..	..	..	..	..	..	..	..
	Neuralgia	..	..	..	..	..	..	..	..	..	..	..	..
	Total nervous diseases	100	37	91	39	94	55	86	52	76	47	95	78
2	*Circulatory.*												
	Pericarditis	3	..	5	2	6	3	2	2	3	4	..	3
	Aneurism	6	1	13	3	12	2	5	1	2	..	2	1
	Aneurism of heart	1	..	..	1	..	..	1	..	..	1	..	..
	Embolism	..	..	..	..	..	..	..	..	..	..	..	1
	Atheroma of heart	..	..	1	..	..	..	..	..	..	..	..	..
	Hypertrophy of the heart	6	4	9	4	10	6	8	6	6	4	11	5
	Valvular disease of the heart	28	30	38	25	32	33	28	41	33	31	37	40
	Ossification of arteries	..	..	..	..	..	..	..	..	..	..	..	..
	Ossification of valves	..	..	..	..	..	..	..	..	..	..	..	..
	Syncope	..	..	..	..	..	..	..	..	..	..	..	..
	Fatty degeneration of the heart	3	1	1	7	1	3	3	4	2	6	9	4
	Endocarditis	1	..	3	1	2	3	2	2	2	..	2	2
	Disease of the heart	8	5	5	5	8	4	11	4	5	7	7	4
	Angina pectoris	..	2	..	..	3	2	1	..	1	..	5	1
	Phlebitis	..	1	..	..	..	..	1	1	..	..	..	..
	Epistaxis	..	..	..	..	..	..	..	..	..	..	..	..
	Atheromatous degeneration of arteries	..	..	..	..	..	..	..	..	..	..	1	..
	Calcification of coronary arteries	..	..	..	..	..	..	..	..	..	..	1	..
	Hemorrhage from rupture of varicose vein	..	..	..	..	..	1	..	..	..	..	..	..
	Total circulatory diseases	56	44	75	48	74	57	62	61	54	53	75	62

and Color—Year 1881—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1
1	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	7	3	10
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	3	....	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	1	8
2	1	1	1	..	2	..	1	..	..	..	..	..	..	..	..	108	26	134
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
69	53	54	47	38	38	26	34	6	17	1	5	..	1	..	..	1,861	1,414	3,274
2	4	..	2	3	1	..	..	..	..	..	..	..	..	..	..	45	38	83
4	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	51	13	64
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1
7	9	2	5	4	5	..	2	..	..	..	..	..	..	..	..	83	73	156
25	14	22	17	11	13	8	8	1	..	..	..	..	..	..	..	385	368	753
..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	1
7	7	5	7	3	3	2	..	..	1	..	..	..	..	..	..	39	48	87
..	3	1	1	..	..	..	..	..	1	..	..	..	..	..	..	24	28	52
5	5	6	5	1	3	..	..	..	..	..	..	..	..	..	..	74	54	128
..	..	1	..	..	2	..	..	..	..	..	..	..	..	..	..	13	8	21
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	2	2	4
..	1	..	1	2	..	..	..	..	1	..	..	..	..	..	..	3	3	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	1
50	44	38	39	25	28	11	10	1	3	..	..	..	..	..	..	728	645	1,373

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Respiratory.*										
	Laryngitis	23	24	3	5	..	..	6	9	5	6
	Bronchitis	611	521	167	222	26	21	404	311	108	103
	Pneumonia	1,087	896	749	529	49	39	400	307	232	203
	Pleuritis	22	19	33	21	1	3	5	2	2	2
	Pleuritis, hydrothorax	1	..	2	..	..	..	..	..	..	..
	Pleuritis, empyema	2	..	4	6	..	1	1	..	..	..
	Gangrene of lungs	1	1	5	..	..	..	..	..	..	..
	Congestion of lungs	61	48	22	18	..	..	34	31	5	3
	Hæmorrhage of lungs	7	1	9	2	..	..	1	..	..	..
	Abscess of lungs	..	..	1	..	..	..	..	..	..	..
	Abscess of larynx and trachea	..	..	1	..	..	..	..	..	..	..
	Emphysema and asthma	13	10	31	32	1	1	5	2	1	..
	Œdema glottidis	1	..	..	..	..	..	1	..		..
	Coryza	2	3	..	..	..	..	1	3	..	..
	Paralysis of muscles of throat	1	..	..	..	..	..	..	..	..	..
	Tumor of larynx	..	..	1	..	..	..	..		..	..
	Tumor of mediastinum	1	..	..	..	..	..	..	..	..	..
	Total respiratory diseases	1,833	1,513	1,028	834	77	65	858	665	353	317
4	*Digestive.*										
	Intestinal contusion and rupture	1	..	..	..	..	..	..	..	..	..
	Stomatitis	7	8	..	2	1	..	4	8	3	1
	Infarction and abscess of spleen	..	1	..	..	..	..	..	..	..	..
	Pharyngitis	1	4	1	..	..	..	..	2	1	..
	Ischio-rectal abscess	2	..	2	..	..	..	..	..	..	..
	Gastritis	49	52	30	37	..	2	27	23	5	5
	Dyspepsia	20	14	8	8	..	..	17	9	2	1
	Enteritis	90	84	15	26	1	1	65	51	11	15
	Gastro-enteritis	158	134	22	17	..	2	126	95	23	22
	Hæmatemesis	..	1	1	..	..	..	..	..	..	..
	Myo-sarcoma of pharynx	1	..	..	..	..	..	..	..	..	..
	Peritonitis	57	50	23	44	4	2	11	5	..	3
	Melæna	1	..	..	..	..	..	1	..	..	..

and Color—*Year* 1881—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	5	3	..	..	2	18	22	2	1	1	1	..	..	..	1	1	..	..	2
44	38	12	23	12	8	580	483	16	12	1	3	1	3	6	1	6	4	6	5
110	83	50	54	31	20	823	667	50	61	17	11	24	17	53	36	84	44	72	58
1	..	..	1	..	..	8	5	1	1	1	1	1	2	2	1	6	..	6	5
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	2	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
2	1	3	..	1	1	45	36	3	4	2	..	1	1	3	1	3	1	..	1
..	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	5	..	2	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	6	2	..	..	..	1	..	..	1	1	2	..	3	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	3	..	..	..	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
161	127	68	78	44	31	1,484	1,218	73	80	22	17	28	23	65	42	107	51	89	72
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	7	9	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	1	..	..	1	3	..	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	3	3	1	..	36	31	5	2	2	..	..	3	2	4	3	3	1	8
1	1	..	2	..	..	20	13	..	..	..	..	..	..	..	..	..	..	..	..
..	4	..	1	1	2	77	73	4	6	4	1	3	1	2	2	1	1	2	4
6	3	1	1	2	..	158	121	..	3	2	..	..	2	1	1	..	1	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	4	..	..	2	16	10	9	5	8	7	4	7	7	9	1	7	10	9
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	.

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Respiratory.*												
	Laryngitis	..	1	1	..	1	..	1	1	..	..	..	..
	Bronchitis	10	5	5	9	5	5	12	19	14	21	15	28
	Pneumonia	86	56	118	55	111	60	100	53	83	61	63	53
	Pleuritis	5	1	5	..	5	5	5	2	1	2	3	2
	Pleuritis, hydrothorax	..	..	..	..	..	..	1	..	1	..	..	..
	Pleuritis, empyema	..	..	2	..	..	1	..	1	..	..	3	..
	Gangrene of lungs	2	..	1	..	..	..	..	..	..	..	2	..
	Congestion of lungs	4	..	1	1	2	2	4	2	..	2	2	4
	Hæmorrhage of lungs	2	..	2	..	1	..	..	1	2	1	1	..
	Abscess of lungs	1	..	..	..	..	..	..	..	..	..	..	..
	Abscess of larynx and trachea	..	..	..	..	..	..	1	..	..	..	..	..
	Emphysema and asthma	..	2	3	..	3	3	3	4	3	4	4	6
	Œdema glottidis	..	..	..	..	..	..	..	..	..	..	..	..
	Coryza	..	..	..	..	..	..	..	..	..	..	..	..
	Paralysis of muscles of throat	..	..	..	..	..	..	..	..	..	..	1	..
	Tumor of larynx	..	..	..	..	..	..	..	..	..	..	..	..
	Tumor of mediastinum	..	..	1	..	..	..	..	..	..	..	..	..
	Total respiratory diseases	110	65	139	65	128	76	127	83	104	91	94	93
4	*Digestive.*												
	Intestinal contusion and rupture	..	..	..	..	..	..	..	..	..	..	..	..
	Stomatitis	..	..	..	..	..	..	..	1	..	..	..	..
	Infarction and abscess of spleen	..	..	..	..	..	..	..	..	..	..	..	..
	Pharyngitis	..	..	..	..	..	..	..	..	..	..	..	..
	Ischio-rectal abscess	..	..	..	..	1	..	1	..	1	..	..	..
	Gastritis	3	3	3	..	6	3	2	3	4	4	..	6
	Dyspepsia	..	..	..	..	..	1	2	1	1	..	1	2
	Enteritis	1	1	1	2	..	3	1	3	3	1	2	2
	Gastro-enteritis	3	5	2	2	1	3	2	2	2	2	..	1
	Hæmatemesis	1	..	..	..	..	..	..	..	..	..	..	..
	Myo-sarcoma of pharynx	..	..	1	..	..	..	..	..	..	..	..	..
	Peritonitis	7	6	2	4	4	7	1	3	3	5	1	2
	Melæna	..	..	..	..	..	..	..	..	..	..	..	..

and Color—Year 1881—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	26	29	55
28	32	29	38	21	30	14	22	7	11	1	2	..	..	1	..	778	733	1,511
59	54	37	55	35	39	16	32	3	10	1	2	..	1	1	..	1,836	1,425	3,261
2	3	4	1	..	7	..	1	..	1	..	..	..	..	..	..	55	40	95
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	6	6	12
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	6	1	7
2	2	5	1	4	4	2	1	..	1	..	2	..	..	..	..	83	66	154
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	3	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
8	3	4	3	3	5	1	3	..	3	..	1	..	..	..	..	44	41	85
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
100	94	80	99	64	85	33	59	10	26	2	7	..	1	2	..	2,861	2,347	5,208
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	10	17
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	4	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	4
3	7	4	2	3	4	1	5	1	1	..	..	..	..	..	..	79	89	168
1	2	2	..	1	3	..	..	..	..	..	..	..	..	..	..	28	22	50
..	4	1	2	2	2	..	1	1	..	..	1	..	..	..	..	105	110	215
2	1	1	1	2	2	..	..	1	..	..	1	..	..	..	..	180	151	331
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
3	7	..	1	3	2	1	3	..	..	..	..	..	..	..	..	80	94	174
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*										
	Ascites	..	2	2	1	..	..	..	1	..	..
	Ulceration of intestines (perforation?)	1	2	..	2	..	..	..	..	..	..
	Pharyngeal abscess	3	1	..	1	..	..	..	..	..	..
	Intussusception of intestines	16	20	9	8	..	1	12	7	1	2
	Occlusion of ductus communis choledochus	..	1	..	..	..	..	..	..	..	..
	Stricture of intestines	1	1	..	1	..	..	..	..	..	..
	Prolapsus of rectum	..	1	..	..	..	..	..	1	..	..
	Ulceration of rectum	..	1	1	..	..	..	..	..	..	..
	Hernia	9	11	21	31	2	1	3	1	1	..
	Ulcer of the stomach	3	7	14	13	..	..	..	..	..	..
	Hæmorrhage of bowels	1	1	1	..	..	..	1	..	..	..
	Colic	5	6	3	2	..	..	4	4	..	..
	Fatty degeneration of liver	1	5	3	5	..	..	..	..	..	..
	Hypertrophy of liver	3	3	2	9	..	..	..	..	1	1
	Cirrhosis of liver	33	15	117	91	..	1	..	..	..	..
	Abscess of liver	5	3	7	2	1	..	..	..	..	..
	Tumor of liver	..	..	1	..	..	..	..	..	..	..
	Congestion of liver	2	..	..	..	..	..	1	..	..	..
	Atrophy of liver	2	2	..	1	..	..	..	..	..	..
	Hepatitis	13	15	30	29	..	..	..	..	1	..
	Jaundice	17	12	1	1	..	..	16	12	..	..
	Perforation of vermiform appendix	3	3	3	1	..	..	..	..	..	..
	Leucocythæmia	2	1	3	3	..	..	..	..	..	..
	Ulceration of colon	..	..	..	1	..	..	..	..	..	..
	Fistula from a wound	..	..	1	..	..	..	..	..	..	..
	Stricture of œsophagus	..	1	1	1	..	..	..	..	..	..
	Polypus of pylorus	..	..	..	1	..	..	..	..	..	..
	Stricture of rectum	..	..	1	1	..	..	..	..	..	..
	Recto-peritoneal abscess	..	1	1	..	..	..	..	..	..	..
	Vomiting	..	..	..	1	..	..	..	..	..	..
	Rectal fistula	..	..	1	2	..	..	..	..	..	..
	Gall stones	1	3	2	2	..	..	..	..	..	..
	Spasms of œsophagus	..	1	..	..	..	..	..	1	..	..
	Splenitis	1	..	..	..	..	..	..	..	..	..

nd Color— Year 1881—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..
3	1	..	..	..	..	3	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	1	13	10	1	..	..	..	1	1	..	1	1	2	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	4	1	..	..	..	..	1	..	..	..	..	..	1	3
..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	2	3	1
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	4	4	..	..	..	..	..	1	1	..	1	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..	1
..	..	..	..	..	..	1	1	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	1	..	1	..	2	..	4	..	4	5	9	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	2	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
..	1	..	..	..	..	1	1	1	..	..	1	..	1	2	2	2	2	2	1
..	..	1	..	..	..	17	12	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	1	..	..	3	2	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	1	..	..	2	1	1	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	.	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
1	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*												
	Ascites	1	..	1	..	..	1	..	..	..	..	..	..
	Ulceration of intestines (perforation?)	..	..	..	..	..	..	..	..	..	1	..	1
	Pharyngeal abscess	..	..	..	..	..	1	..	..	..	..	..	..
	Intussusception of intestines	..	1	2	2	1	1	1	..	1	..	1	1
	Occlusion of ductus communis choledochus	..	..	..	..	..	..	..	..	..	..	..	..
	Stricture of intestines	..	..	..	..	..	..	..	..	..	..	..	..
	Prolapsus of rectum	..	..	..	..	..	..	..	..	..	..	..	..
	Ulceration of rectum	..	..	..	..	..	1	..	..	..	..	..	..
	Hernia	2	3	3	..	2	7	6	5	1	5	2	6
	Ulcer of the stomach	1	1	..	4	..	3	3	1	4	2	1	3
	Hæmorrhage of bowels	..	..	..	..	..	..	1	..	..	..	..	..
	Colic	..	..	..	..	..	..	1	..	..	..	..	..
	Fatty degeneration of liver	..	1	..	1	..	1	2	..	..	1	1	1
	Hypertrophy of liver	..	1	..	2	1	1	..	1	..	..	1	3
	Cirrhosis of liver	13	17	19	16	20	16	22	9	21	12	18	6
	Abscess of liver	1	..	2	1	2	..	1	..	2	..	1	1
	Tumor of liver	..	..	..	..	..	..	..	..	1	..	..	..
	Congestion of liver	..	..	..	..	..	..	..	..	..	..	..	..
	Atrophy of liver	..	..	1	..	..	..	..	..	..	..	..	2
	Hepatitis	2	3	4	4	6	4	2	7	8	2	5	5
	Jaundice	..	..	1	..	..	..	..	..	..	..	..	..
	Perforation of vermiform appendix	2	..	..	..	..	..	..	1	..	..	..	..
	Leucocythæmia	..	..	..	..	..	1	1	..	..	..	..	..
	Ulceration of colon	..	..	..	..	..	..	..	1	..	..	..	..
	Fistula from a wound	..	..	..	..	..	..	..	..	..	..	1	..
	Stricture of œsophagus	..	..	..	1	..	..	..	..	1	..	..	..
	Polypus of pylorus	..	..	..	..	..	..	..	..	..	..	..	..
	Stricture of rectum	..	1	..	..	..	..	..	..	..	..	1	..
	Recto-peritoneal abscess	..	..	1	..	..	..	..	..	..	..	..	..
	Vomiting	..	1	..	..	..	..	..	..	..	..	..	..
	Rectal fistula	1	..	..	..	..	..	..	1	..	..	..	..
	Gall stones	..	..	..	..	..	..	..	..	1	1	..	1
	Spasms of œsophagus	..	..	..	..	..	..	..	..	..	..	..	..
	Splenitis	..	..	..	..	..	..	..	..	..	..	..	..

and Color—*Year* 1881—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3	5
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	4	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	5
1	2	1	2	..	.	..	1	..	..	..	..	..	1	..	..	25	28	53
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
3	4	4	2	1	4	..	1	..	..	..	1	..	..	..	..	30	42	72
2	3	1	..	..	..	..	..	..	..	..	..	..	..	..	..	17	20	37
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	1	..	1	1	..	..	..	..	..	..	..	..	..	..	..	8	8	16
..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	4	10	14
..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	5	12	17
9	7	4	5	2	4	1	1	..	1	..	..	..	..	..	..	150	106	256
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	5	17
..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	1	..	1
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3	5
3	4	3	2	2	..	..	3	..	2	..	..	..	..	..	..	43	44	87
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	18	13	31
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	6	4	10
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	4	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	3	5	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*										
	Impacted fæces	2	2	..	..	..	..	2	..	..	..
	Abscess of bowels	..	..	..	1	..	..	..	..	..	..
	Abscess of perineum	..	1	..	..	..	..	..	1	..	..
	Abscess of rectum	1	..	..	..	..	..	..	..	..	..
	Chronic dis. of lymphatic glands of bowels	..	1	..	..	..	..	..	..	..	1
	Constipation	6	7	1	2	..	..	2	7	..	..
	Catarrh of bile duct	1	..	..	..	..	..	..	..	..	..
	Fibroid tumor of spleen	..	1	..	..	..	..	..	..	..	..
	Glosso-labial pharyngeal paralysis	..	..	..	1	..	..	..	..	..	..
	Hypertrophy of parotid gland	..	..	1	..	..	..	..	..	..	..
	Hypertrophy of mesenteric gland	1	..	..	..	..	..	..	..	..	..
	Hæmorrhoids	..	..	1	..	..	..	..	..	..	..
	Total digestive diseases	520	479	330	348	9	10	293	228	48	51
5	*Urinary.*										
	Nephritis	119	94	165	136	16	7	4	3	4	3
	Nephria (Bright's disease)	249	168	406	364	13	12	6	1	2	..
	Uræmia	6	3	4	3	..	..	1	1	..	..
	Diabetes	10	5	19	9	..	..	..	..	..	..
	Calculus	7	1	6	4	1	..	..	..	..	..
	Cystitis	13	4	34	3	1	1	..	..	..	..
	Prostatitis	1	1	3	..	..	..	..	..	..	..
	Villous tumor of bladder	..	1	..	..	..	..	..	..	..	..
	Pyelitis	..	1	2	..	..	..	..	..	..	..
	Hæmaturia	..	1	..	..	..	..	..	1	..	..
	Hypertrophy of prostate	2	..	6	..	..	..	..	..	..	..
	Suppression of urine	2	1	1	4	..	..	1	..	..	..
	Stricture of urethra	8	..	6	..	1	..	1	..	..	..
	Addison's disease	..	..	1	2	..	..	..	..	..	..
	Abscess of kidneys	1	..	..	..	..	..	..	..	..	..
	Congestion of kidneys	1	..	..	..	..	..	..	..	..	..
	Total urinary diseases	419	280	653	525	32	20	13	6	6	3

and Color—Year 1881—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	1	..	..	..	..	2	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	2	7	1	..	..	..	..	..	1	..	1	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	11	11	8	4	5	368	303	23	20	19	13	16	17	26	22	16	31	37	45
6	1	6	4	6	4	26	15	8	10	9	2	6	4	17	15	19	15	16	19
6	..	1	1	2	3	17	5	11	5	4	8	13	5	18	23	43	39	42	39
..	..	..	..	1	..	2	1	..	..	..	..	..	..	1	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	2	..	..	..	..	..	..	1	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	1	8	5	9	7	48	22	19	15	13	10	19	10	36	39	65	55	64	59

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*												
	Impacted fæces	..	1	..	..	..	..	..	..	..	..	..	..
	Abscess of bowels	..	..	..	..	..	..	..	1	..	..	..	..
	Abscess of perineum	..	..	..	..	..	..	..	..	..	..	..	..
	Abscess of rectum	..	..	..	..	..	..	..	..	..	..	..	..
	Chronic dis. of lymphatic glands of bowels	..	..	..	..	..	..	..	..	..	..	..	..
	Constipation	..	..	..	..	..	..	..	..	..	1	..	..
	Catarrh of bile duct	..	..	..	..	..	..	..	..	..	..	..	..
	Fibroid tumor of spleen	..	..	..	..	..	..	..	..	..	..	..	..
	Glosso-labial pharyngeal paralysis	..	..	..	..	..	..	..	..	..	1	..	..
	Hypertrophy of parotid gland	..	..	..	..	..	..	..	..	..	..	..	..
	Hypertrophy of mesentric gland	..	..	..	..	..	..	..	..	..	..	..	..
	Hæmorrhoids	..	..	..	..	..	..	1	..	..	..	..	..
	Total digestive diseases	38	46	43	39	44	54	50	40	54	38	36	43
5	*Urinary.*												
	Nephritis	38	26	26	25	27	23	29	23	14	11	15	11
	Nephria (Bright's disease)	58	56	61	45	67	59	79	55	72	46	57	48
	Uræmia	..	..	1	1	1	..	2	..	1	1	1	..
	Diabetes	3	1	5	..	1	1	7	4	3	1	1	2
	Calculus	1	..	..	..	1	1	..	..	1	1	1	2
	Cystitis	..	1	2	1	2	..	5	..	4	..	5	1
	Prostatitis	..	..	..	..	..	..	..	..	..	..	2	1
	Villous tumor of bladder	..	..	..	..	..	..	..	..	..	..	..	..
	Pyelitis	..	..	..	..	..	..	..	1	..	..	..	..
	Hæmaturia	..	..	..	..	..	..	..	..	..	..	..	..
	Hypertrophy of prostate	1	..	..	..	..	..	..	..	..	..	..	..
	Suppression of urine	..	..	..	..	..	..	..	1	1	..	..	1
	Stricture of urethra	1	..	2	..	1	..	..	..	4	..	3	..
	Addison's disease	..	..	..	..	..	..	..	1	..	..	..	1
	Abscess of kidneys	..	..	..	..	..	..	..	..	..	..	..	..
	Congestion of kidneys	1	..	..	..	..	..	..	..	..	..	..	..
	Total urinary diseases	103	84	97	72	100	84	122	85	100	60	85	67

and Color—Year 1881—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	7	9	16
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
30	47	22	24	20	22	5	15	3	4	..	3	..	1	..	..	850	827	1,677
16	16	12	7	4	2	1	4	1	2	..	..	..	..	..	..	284	230	514
39	42	35	25	16	22	15	6	6	3	2	1	..	..	..	..	655	532	1,187
1	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	10	6	16
1	4	4	1	..	..	..	..	..	..	..	..	..	..	..	..	29	14	43
3	..	4	..	1	..	..	..	..	..	..	..	..	..	..	..	13	5	18
8	..	6	..	7	2	7	1	1	..	..	..	..	..	..	..	47	7	54
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	5
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
2	..	..	..	4	..	1	..	..	..	..	..	..	..	..	..	8	..	8
..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	3	5	8
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	..	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
73	63	62	36	32	26	24	11	8	6	2	1	..	..	..	..	1,072	805	1,877

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
6	*Generative.*										
	Ovarian tumor	..	6	..	16	..	1	..	..	..	..
	Ovarian dropsy	..	1	..	2	..	..	..	..	..	..
	Amenorrhœa	..	2	..	1	..	..	..	..	..	..
	Ovarian cyst	..	6	..	8	..	..	..	..	..	..
	Chlorosis	..	1	..	..	..	..	..	..	..	..
	Metritis and metro-peritonitis (not puerperal)	..	3	..	5	..	1	..	..	..	..
	Gangrene of vulva	..	1	..	1	..	..	..	..	..	..
	Fibroid uterine tumor	..	6	..	9	..	2	..	..	..	..
	Gangrene of scrotum	1	..	..	..	..	..	1	..	..	..
	Fibroid uterine cyst	..	..	..	1	..	..	..	..	..	..
	Hysteria	..	..	..	1	..	..	..	..	..	..
	Inversion of uterus	..	..	..	1	..	..	..	..	..	..
	Laceration of cervix uteri	..	1	..	..	..	..	..	..	..	..
	Prolapsus uteri	..	..	..	1	..	..	..	..	..	..
	Pelvic hæmatocele	..	..	..	1	..	..	..	..	..	..
	Rupture of encysted peri-uterine abscess	..	..	..	1	..	..	..	..	..	..
	Ulceration of cervix uteri	..	1	..	..	..	..	..	..	..	..
	Vaginitis	..	1	..	..	..	..	..	..	..	..
	Total generative diseases	1	29	..	48	..	4	1	..	..	..
7	*Locomotory and Osseous.*										
	Arthritis	4	2	2	..	..	..	..	..	..	..
	Osteo-sarcoma	..	1	1	..	..	..	..	..	..	..
	Necrosis	11	1	6	2	1	..	1	..	..	..
	Spinal disease	12	12	2	2	..	..	..	..	..	..
	Hip disease	16	11	7	1	1	..	..	..	1	..
	Caries	16	12	11	5	1	1	1	1	..	..
	Synovitis	3	1	4	2	..	..	1	..	1	..
	Cellulitis	2	..	..	1	..	..	1	..	..	..
	Fragilitas ossium	..	..	..	1	..	..	..	..	..	..
	Mollities ossium	..	1	..	..	..	..	..	..	..	..
	Osseous tumor of inferior maxilla	1	..	..	..	..	..	..	..	..	..

and Color—Year 1881—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	2	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	1	1	..	1	..	..	..	2	..	5	..	4	..	5
..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	1	1	..	..	..	4	1	2	..	1	..	..	..	1	..	1	..	1	..
1	..	1	1	1	1	3	2	5	5	3	4	1	1	..	..	..	..	..	1
1	..	..	..	2	2	4	2	6	5	4	4	1	..	1	..	2	..	1	..
2	1	2	1	..	..	5	3	6	2	2	6	..	2	1	..	3	2	1	..
..	..	..	1	..	..	2	1	..	..	..	1	..	..	..	..	2	..	1	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
6	*Generative.*												
	Ovarian tumor	..	1	..	2	..	5	..	1	..	2	..	4
	Ovarian dropsy	..	..	..	1	..	1	..	..	..	..	..	..
	Amenorrhœa	..	..	..	1	..	..	..	..	..	..	..	..
	Ovarian cyst	..	3	..	2	..	1	..	2	..	..	..	2
	Chlorosis	..	..	..	..	..	..	..	..	..	..	..	..
	Metritis and metro-peritonitis (not puerperal)	..	..	..	3	..	..	..	..	..	..	..	..
	Gangrene of vulva	..	1	..	1	..	..	..	..	..	..	..	..
	Fibroid uterine tumor	..	2	..	2	..	5	..	3	..	1	..	1
	Gangrene of scrotum	..	..	..	..	..	..	..	..	..	..	..	..
	Fibroid uterine cyst	..	..	..	1	..	..	..	..	..	..	..	..
	Hysteria	..	..	..	..	..	..	..	..	..	..	..	..
	Inversion of uterus	..	..	..	1	..	..	..	..	..	..	..	..
	Laceration of cervix uteri	..	1	..	..	..	..	..	..	..	..	..	..
	Prolapsus uteri	..	..	..	..	..	..	..	..	..	..	..	..
	Pelvic hæmatocele	..	1	..	..	..	..	..	..	..	..	..	..
	Rupture of encysted peri-uterine abscess	..	..	..	..	..	..	..	..	..	..	..	..
	Ulceration of cervix uteri	..	..	..	..	..	..	..	..	..	..	..	..
	Vaginitis	..	..	..	..	..	..	..	..	..	..	..	..
	Total generative diseases	..	9	..	14	..	12	..	6	..	3	..	7
7	*Locomotory and Osseous.*												
	Arthritis	..	..	1	..	1	..	1	..	..	..	..	..
	Osteo-sarcoma	..	1	1	..	..	..	..	..	..	..	..	..
	Necrosis	2	..	1	..	..	..	..	1	2	..	1	1
	Spinal disease	..	..	..	..	..	..	..	1	..	..	2	..
	Hip disease	1	..	1	..	..	1	1	..	..	..	..	..
	Caries	2	..	..	..	3	..	..	1	1	..	..	1
	Synovitis	..	..	1	..	..	..	..	1	..	..	..	..
	Cellulitis	..	..	1	..	..	..	..	1	..	..	..	..
	Fragilitas ossium	..	..	..	..	..	..	..	..	..	..	..	..
	Mollities ossium	..	..	..	..	..	..	..	..	..	..	..	..
	Osseous tumor of inferior maxilla	..	..	..	..	..	..	..	..	..	..	..	..

and Color—Year 1881—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22	22
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	8	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	9
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	15	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	4	..	2	..	2	..	..	..	..	..	..	..	..	..	..	1	77	78
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	6	2	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	17	3	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	14	28
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	23	12	35
1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	27	17	44
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	7	3	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
7	*Locomotory and Osseous.*										
	Osteo-myelitis	1	..	..	..	..	..	..	..	..	..
	Pelvic cellulitis	..	2	..	5	..	1	..	..	..	..
	Periostitis	..	..	1	2	..	..	..	..	..	..
	Total locomotory and osseous	66	43	34	21	3	2	4	1	2	..
8	*Integumentary.*										
	Abscess	22	27	13	8	..	3	7	16	3	2
	Pemphigus	1	1	..	..	..	..	..	1	..	..
	Eczema	4	4	..	..	..	..	3	3	1	..
	Otorrhœa	1	..	..	..	..	..	..	..	..	..
	Furuncles	..	2	..	..	..	..	..	2	..	..
	Otitis	10	10	1	2	..	1	4	2	1	..
	Ophthalmia	1	1	..	..	..	..	1	1	..	..
	Crusta lactea	1	..	..	..	..	..	1	..	..	..
	Ulcer of various parts	2	9	15	11	..	1	..	2	..	..
	Gangrene of various parts	2	2	9	2	..	..	..	..	..	2
	Tumor of abdomen	..	2	2	..	..	..	..	..	..	1
	Tumor of breast, adenoid	..	1	..	..	..	..	..	..	..	..
	Conjunctivitis	..	1	..	..	..	..	..	1	..	..
	Exophthalmos	1	..	..	..	..	..	..	..	..	..
	Encysted tumor of thyroid gland	..	..	..	1	..	..	..	..	..	..
	Exophthalmic goitre	..	1	..	1	..	..	..	..	..	..
	Hypertrophy of adipose tissue	..	..	..	1	..	..	..	..	..	..
	Leprosy	..	..	1	..	..	..	..	..	..	..
	Paronychia	..	..	..	2	..	..	..	..	..	..
	Suppurative salpingitis	..	..	..	1	..	..	..	..	..	..
	Spondylitis	..	..	..	1	..	..	..	..	..	..
	Total integumentary diseases	45	61	39	32	..	5	16	28	5	5
	Total local class	4,415	3,640	3,142	2,631	178	149	1,758	1,380	614	540

and Color—Year 1881—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	2	4	3	3	3	19	9	20	12	12	15	2	3	3	1	9	3	5	4
2	1	1	1	1	..	14	20	3	..	1	..	1	2	1	..	3	2	1	1
..	..	..	..	1	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	4	4	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..
1	1	..	2	..	1	6	6	2	3	..	1	1	..	1	..	1	..	..	1
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	3	..	..	..	..	..	5	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	2	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
4	7	1	3	2	1	28	44	6	3	1	1	2	2	2	..	5	5	1	2
265	214	127	129	87	68	2,851	2,331	201	204	119	113	121	103	194	162	284	220	315	259

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
7	*Locomotory and Osseous.*												
	Osteo-myelitis	..	..	..	..	..	..	..	..	..	..	..	..
	Pelvic cellulitis	..	1	..	1	..	..	..	..	..	..	..	..
	Periostitis	1	1	..	..	..	..	..	1	..	..	..	..
	Total locomotory and osseous	6	3	6	1	4	1	2	6	3	..	3	2
8	*Integumentary.*												
	Abscess	4	4	..	2	1	..	1	1	1	..	1	..
	Pemphigus	..	..	..	..	..	..	..	..	..	..	..	..
	Eczema	..	..	..	..	..	..	..	..	..	..	..	..
	Otorrhœa	..	..	..	..	..	..	..	..	..	..	..	..
	Furuncles	..	..	..	..	..	..	..	..	..	..	..	..
	Otitis	..	1	..	..	..	..	..	..	..	..	..	..
	Ophthalmia	..	..	..	..	..	..	..	..	..	..	..	..
	Crusta lactea	..	..	..	..	..	..	..	..	..	..	..	..
	Ulcer of various parts	..	1	1	..	1	2	1	..	3	2	3	4
	Gangrene of various parts	1	..	1	..	2	..	1	..	2	..	1	..
	Tumor of abdomen	..	1	..	..	..	..	..	..	..	..	..	..
	Tumor of breast, adenoid	..	..	..	..	..	..	..	..	..	..	..	1
	Conjunctivitis	..	..	..	..	..	..	..	..	..	..	..	..
	Exophthalmos	..	..	..	..	..	..	..	..	..	..	..	..
	Encysted tumor of thyroid gland	..	..	..	..	..	1	..	..	..	..	..	..
	Exophthalmic goitre	..	..	..	..	..	..	..	..	..	..	..	..
	Hypertrophy of adipose tissue	..	..	..	..	..	..	..	..	..	1	..	..
	Leprosy	..	..	..	..	..	..	..	..	..	..	..	..
	Paronychia	..	..	..	..	..	1	..	..	..	..	..	1
	Suppurative salpingitis	..	..	..	..	..	..	..	..	..	..	..	..
	Spondylitis	..	..	..	..	..	..	..	..	..	..	..	..
	Total integumentary diseases	5	7	2	2	4	4	3	1	6	3	5	6
	Total local class	418	295	453	280	448	343	452	334	397	295	393	358

and Color—Year 1881—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
1	1	2	3	2	..	1	..	..	..	..	..	..	..	..	..	100	64	164
..	2	1	..	..	..	1	1	1	..	..	..	..	..	..	..	35	35	70
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	12	23
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
4	3	2	1	1	1	..	..	1	..	..	..	..	..	..	..	17	20	37
2	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	11	4	15
..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
6	7	4	3	1	2	1	1	2	..	..	..	..	..	..	..	84	93	177
329	313	262	253	182	203	101	130	30	56	5	16	..	3	2	..	7,557	6,271	13,828

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Children.*										
	Premature birth	371	273	..	..	4	4	371	273	..	..
	Preternatural birth	34	26	..	..	..	..	34	26	..	..
	Cyanosis	53	27	..	..	3	..	53	25	..	2
	Atelectasis pulmonum	116	76	1	1	3	4	117	77	..	..
	Spina bifida	11	12	..	..	..	..	11	12	..	..
	Imperforate anus	7	2	..	..	..	..	7	2	..	..
	Other malformations	11	8	..	..	..	..	11	7	..	1
	Hæmorrhage of umbilicus	12	14	..	..	1	2	12	14	..	..
	Cleft palate	..	8	..	..	..	..	..	8	..	..
	Total developmental diseases of children	615	446	1	1	11	10	616	444	..	3
2	*Women.*										
	Childbirth	..	20	..	40	..	..	..	..	..	..
	Flooding	..	3	..	9	..	..	..	..	..	..
	Puerperal metritis and metro-peritonitis	..	50	..	102	..	2	..	..	..	..
	Puerperal septicæmia	..	16	..	21	..	..	..	..	..	..
	Puerperal pyæmia	..	2	..	..	..	..	..	..	..	..
	Puerperal convulsions	..	14	..	15	..	2	..	..	..	..
	Puerperal mania	..	4	..	4	..	..	..	..	..	..
	Puerperal uræmia	..	4	..	..	..	..	..	..	..	..
	Miscarriage and abortion	..	17	..	17	..	2	..	..	..	..
	Phlegmasia dolens	..	..	..	4	..	..	..	..	..	..
	Placenta prævia	..	5	..	10	..	1	..	..	..	..
	Uræmia of pregnancy	..	10	..	3	..	..	..	..	..	..
	Vomiting of pregnancy	..	..	..	1	..	..	..	..	..	..
	Tubal pregnancy	..	1	..	1	..	..	..	..	..	..
	Total developmental diseases of women	..	146	..	227	..	7	..	..	..	..
3	*Age.*										
	Senile gangrene	1	2	4	7	..	..	..	..	..	..
	Senile debility (old age)	46	78	148	270	1	11	..	..	..	..
	Total diseases of old age	47	80	152	277	1	11	..	..	..	..

and Color—Year 1881—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	371	273	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	34	26	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	53	27	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	117	77	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	11	12	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	7	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	11	8	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	12	14	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	8	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	616	447	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	8	..	15	..	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	6
..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	50	..	45	..	29
..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	8	..	11	..	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	4	..	6	..	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	7	..	7	..	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	..	2	..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	13	..	89	..	95	..	89
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Children.*												
	Premature birth	..	..	..	..	..	..	..	..	..	..	..	..
	Preternatural birth	..	..	..	..	..	..	..	..	..	..	..	..
	Cyanosis	..	..	..	..	..	..	..	..	..	..	..	..
	Atelectasis pulmonum	..	..	..	..	..	..	..	..	..	..	..	..
	Spina bifida	..	..	..	..	..	..	..	..	..	..	..	..
	Imperforate anus	..	..	..	..	..	..	..	..	..	..	* ..	..
	Other malformations	..	..	..	..	..	..	..	..	..	..	..	..
	Hæmorrhage of umbilicus	..	..	..	*	..	..	..	..	..	..	..	..
	Cleft palate	..	..	..	..	..	..	..	..	..	..	..	..
	Total developmental diseases of children	..	..	..	..	..	..	..	..	..	..	..	..
2	*Women.*												
	Childbirth	..	15	..	6	..	1	..	..	..	..	..	..
	Flooding	..	2	..	1	..	1	..	..	..	..	..	..
	Puerperal metritis and metro-peritonitis	..	16	..	7	..	1	..	..	..	..	..	..
	Puerperal septicæmia	..	6	..	3	..	..	..	..	..	..	..	..
	Puerperal pyæmia	..	..	..	..	..	..	..	..	..	..	..	..
	Puerperal convulsions	..	7	..	..	..	..	..	..	..	..	..	..
	Puerperal mania	..	1	..	1	..	1	..	..	..	..	..	..
	Puerperal uræmia	..	1	..	..	..	..	..	..	..	..	..	..
	Miscarriage and abortion	..	6	..	1	..	2	..	..	..	..	..	..
	Phlegmasia dolens	..	1	..	..	..	..	..	..	..	..	..	..
	Placenta prævia	..	6	..	..	..	1	..	..	..	..	..	..
	Uræmia of pregnancy	..	..	..	..	..	..	..	..	..	..	..	..
	Vomiting of pregnancy	..	..	..	..	..	..	..	..	..	..	..	..
	Tubal pregnancy	..	..	..	..	..	..	..	..	..	..	..	..
	Total developmental diseases of women	..	61	..	19	..	7	..	..	..	..	..	..
3	*Age.*												
	Senile gangrene	..	..	..	..	..	..	..	..	..	..	1	1
	Senile debility (old age)	..	..	..	..	..	..	2	3	4	2	13	20
	Total diseases of old age	..	..	..	..	..	..	2	3	4	2	14	21

and Color—Year 1881—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	371	273	644
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	34	26	60
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	53	27	80
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	117	77	194
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	12	23
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	2	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	8	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	14	26
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	616	447	1,063
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	60	60
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	152	152
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	37	37
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	29	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	34	34
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	13
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	373	373
..	..	2	2	..	4	2	2	..	..	..	..	..	..	..	..	5	9	14
12	20	40	57	36	67	49	75	24	47	8	28	3	18	3	11	194	348	542
12	20	42	59	36	71	51	77	24	47	8	28	3	18	3	11	199	357	556

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Nutrition.*										
	Atrophy	22	25	1	..	..	..	23	22	..	3
	Asthenia (debility)	41	46	2	..	..	..	41	43	2	3
	Total diseases of nutrition	63	71	3	..	..	..	64	65	2	6
	Total developmental class	725	743	156	505	12	28	680	509	2	9
1	*Accident and Negligence.*										
	Fractures and contusions	66	14	85	12	1	..	1	2	1	..
	Wounds	15	1	17	1	..	..	..	..	..	..
	Killed by vehicles in the street	44	2	34	11	..	..	..	..	1	1
	Fall	112	38	152	57	..	..	5	3	4	2
	Burns and scalds	39	45	17	21	..	1	2	5	9	7
	Poison	15	7	14	1	..	..	1	1	1	..
	Suffocation (asphyxia by)	16	14	10	2	..	..	8	9	1	..
	Drowning	48	7	102	11	..	..	..	4	2	1
	Neglect and exposure	1	1	..	..	..	..	1	1	..	..
	Surgical operations	6	11	3	7	2	2	2	..	1	..
	Total accident and negligence	362	140	434	123	3	3	20	25	20	11
3	*Homicide.*										
	By gunshot	11	2	8	4	..	..	..	..	..	..
	By blows	5	2	5	6	..	..	..	..	..	..
	By cut, stab	4	..	7	1	1	..	..	..	..	..
	By other means	2	1	4	3	1	..	2	1	..	..
	Total homicidal deaths	22	5	24	14	2	..	2	1	..	..
4	*Suicide.*										
	By strangulation	1	..	..	1	..	..	..	..	..	..
	By poisons	6	5	23	3	..	..	..	..	..	..
	By drowning	1	..	3	4	..	..	..	..	..	..
	By hanging	2	1	25	5	..	..	..	..	..	..
	By leap	1	1	5	5	..	..	..	..	..	..

and Color—Year 1881—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	23	25	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	43	46	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	66	71	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	682	518	..	..	..	..	..	13	..	89	..	95	..	89
1	1	1	..	4	..	8	3	4	2	6	1	13	1	8	1	12	1	15	3
..	..	..	..	..	..	..	..	2	1	5	..	1	..	5	..	3	..	6	..
..	1	2	1	2	..	5	3	12	2	5	..	6	..	8	..	9	..	4	..
6	4	9	5	7	1	31	15	18	6	9	5	9	1	27	8	17	4	20	6
12	5	4	7	5	2	32	26	3	8	..	2	2	4	4	4	2	5	2	1
1	2	1	1	..	..	4	4	1	..	..	..	1	..	3	2	2	1	3	..
..	2	..	..	..	..	9	11	2	1	1	1	..	2	3	..	1	1	3	..
..	..	1	1	3	..	6	6	10	..	9	2	10	..	7	2	10	1	16	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	3	..	..	..	..	..	..	1	..	1	..	2	1	5
20	15	18	15	21	3	99	69	52	20	35	11	42	9	65	18	56	15	70	15
..	..	..	..	..	..	..	..	..	..	1	2	2	..	4	..	6	..	1	1
..	..	..	..	1	..	1	..	1	..	..	1	..	..	1	..	..	2	1	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	3	..	2	..
..	..	..	..	..	..	2	1	..	..	..	..	..	..	..	1	1	..	..	..
..	..	..	..	1	..	3	1	1	..	2	3	2	..	5	1	10	2	4	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	3	2	5	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	3	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	2	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Nutrition.*												
	Atrophy	..	..	..	..	..	..	..	..	..	..	..	..
	Asthenia (debility)	..	..	..	..	..	..	..	..	..	..	..	..
	Total diseases of nutrition	..	..	..	..	..	..	..	..	..	..	..	..
	Total developmental class	..	61	..	19	..	7	2	3	4	2	14	21
1	*Accident and Negligence.*												
	Fractures and contusions	26	2	17	2	9	1	17	4	10	1	1	..
	Wounds	3	..	1	..	..	..	1	..	1	..	1	..
	Killed by vehicles in the street	6	..	3	..	5	..	5	2	4	1	1	..
	Fall	31	1	27	7	20	3	19	6	10	4	11	7
	Burns and scalds	..	5	2	3	4	2	2	1	..	1	1	..
	Poison	2	..	3	..	3	1	4	..	1	..	..	..
	Suffocation (asphyxia by)	2	..	1	..	..	..	1	..	1	..	..	..
	Drowning	24	1	24	1	14	1	7	1	6	2	4	..
	Neglect and exposure	..	..	..	..	..	..	..	..	..	..	..	..
	Surgical operations	1	1	..	2	..	3	1	1	1	1	2	..
	Total accident and negligence	95	10	78	15	55	11	57	15	34	10	21	7
3	*Homicide.*												
	By gunshot	2	..	1	1	..	1	..	1	..	..	2	..
	By blows	2	1	..	2	..	..	1	2	1	..	2	..
	By cut, stab	2	1	1	..	..	..	2	..	..	..	..	..
	By other means	1	..	..	1	..	..	..	..	1	1	..	..
	Total homicidal deaths	7	2	2	4	..	1	3	3	2	1	4	..
4	*Suicide.*												
	By strangulation	..	..	..	1	..	..	..	..	..	..	..	..
	By poisons	5	..	3	1	2	1	1	1	4	..	2	..
	By drowning	..	2	3	1	..	..	..	..	..	..	..	..
	By hanging	1	1	6	..	5	2	5	1	3	1	2	..
	By leap	2	..	1	..	..	1	..	1	..	1	..	..

and Color—Year 1881—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23	25	48
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	43	46	89
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	66	71	137
12	20	42	59	36	71	51	77	24	47	8	28	3	18	3	11	881	1,248	2,129
1	2	3	1	..	1	..	..	1	..	..	..	..	..	..	..	151	26	177
1	..	..	1	2	..	..	..	..	..	..	..	..	..	..	..	32	2	34
2	3	2	..	1	2	..	..	..	..	..	..	..	..	..	..	78	13	91
8	6	3	5	3	1	..	6	..	3	1	1	..	..	..	..	264	95	359
..	2	..	1	..	..	1	1	..	..	..	..	..	..	1	..	56	66	122
..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	29	8	37
1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	26	16	42
1	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	150	18	168
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	18	27
14	15	12	8	7	4	1	7	1	3	1	1	..	..	1	..	796	263	1,059
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	19	6	25
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	8	18
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	1	12
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	4	10
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	46	19	65
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	29	8	37
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	4	4	8
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	27	6	33
..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	6	6	12

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Suicide.*										
	By gunshot	8	1	37	2	..	..	..	..	..	..
	By cutting	2	..	16	3	..	..	..	..	..	..
	By burns	..	..	..	1	..	..	..	..	..	..
	By blows	..	..	..	1	..	..	..	..	..	..
	By illuminating gas	..	..	3	..	..	..	..	..	..	..
	Total suicidal deaths	21	8	112	25	..	..	..	..	..	..
5	*Execution.*										
	Criminals executed	..	..	..	..	..	..	..	..	..	..
	Total violent deaths	405	153	570	162	5	3	22	26	20	11
	Total deaths at all ages and from all causes	13,700	11,996	6,971	5,957	401	351	5,358	4,333	1,915	1,769

and Color—Year 1881—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	1	3	..	4	1	7	..	6	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2	..	3	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	1	3	1	6	5	14	3	21	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	15	18	15	22	3	102	70	53	20	37	15	47	10	76	24	80	20	95	18
1,019	999	709	693	507	435	9,508	8,229	1,011	1,016	316	294	415	406	797	765	908	855	993	842

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Suicide.*												
	By gunshot	10	..	6	..	3	..	3	..	2	1	1	..
	By cutting	4	..	1	..	1	..	1	..	..	1	1	..
	By burns	..	..	..	..	..	..	..	..	..	..	..	..
	By blows	..	..	..	..	..	..	..	..	..	1	..	..
	By illuminating gas	..	..	1	..	..	..	..	..	1	..	..	..
	Total suicidal deaths	22	3	21	3	11	4	10	3	10	5	6	..
5	*Execution.*												
	Criminals executed	..	..	..	..	..	..	..	..	..	..	..	..
	Total violent deaths	124	15	101	22	66	16	70	21	46	16	31	7
	Total deaths at all ages and from all causes	1,054	831	1,026	677	898	609	853	615	703	498	660	568

and Color—Year 1881—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	45	3	48
2	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	18	3	21
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
5	2	3	1	1	..	..	..	..	..	..	..	..	..	..	..	133	33	166
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	17	15	9	8	4	1	7	1	3	1	1	..	..	1	..	975	315	1,290
550	480	412	431	286	368	185	262	66	124	18	48	6	24	6	11	20,671	17,953	38,624

Deaths by Cause, Age, Sex,

Order.	Causes of Death.		Nativity.				Colored.		Under 1 Year.		1	
			United States.		Foreign.							
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Miasmatic.*											
	Small-pox and varioloid		95	81	47	36	4	1	21	18	10	14
	Varicella		3	3	..	..	..	..	..	3	3	..
	Measles		376	402	67	68	4	3	113	131	149	150
	Roseola		..	..	..	1	..	..	..	..	..	..
	Scarlatina		975	895	97	99	4	5	63	53	196	142
	Diphtheria		711	693	61	60	3	3	79	63	187	147
	Croup		342	327	32	38	..	1	24	39	104	97
	Quinsy (tonsilitis, angina maligna, etc.)		7	5	2	2	..	..	2	1	..	..
	Parotitis		3	5	1	..	..	..	2	2	1	1
	Goitre		..	..	..	1	..	..	..	..	..	..
	Whooping-cough		276	359	13	10	11	7	155	187	80	90
	Erysipelas		47	39	41	22	2	2	34	28	..	3
	Pyæmia		..	1	..	..	..	..	..	..	..	1
	Carbuncle		3	4	3	2	..	..	..	1	..	1
	Dysentery	4,050	118	93	100	82	3	1	33	28	28	17
	Diarrhœa		1,479	1,363	165	162	28	18	1,260	1,110	230	245
	Cholera (Asiatic)		..	..	..	..	..	..	..	..	..	..
	Cholera morbus		9	11	22	24	1	..	..	..	..	..
	Entero-colitis		235	158	12	17	6	8	182	179	42	32
	Cerebro-spinal fever		110	85	29	14	3	1	29	18	20	20
	Typhus fever		17	1	39	8	..	..	..	..	..	..
	Typhoid fever		73	84	130	75	1	2	2	..	1	3
	Continued fever		4	..	..	2	..	..	1	..	1	..
	Remittent fever		43	56	27	29	1	..	5	8	4	9
	Intermittent fever		69	69	34	35	1	4	19	9	10	6
	Typho-malarial fever		38	54	26	36	..	2	..	..	..	1
	Congestive (malignant intermittent)		1	1	..	..	..	..	..	..	..	..
	Congestive chills		7	1	4	4	..	..	2	..	..	..
	Puerperal fever (other puerperal diseases, see order of women)		..	15	..	44	..	1	..	..	..	..
	Total miasmatic diseases		5,031	4,805	952	871	72	59	2,036	1,818	1,066	979

'ativity and Color—Year **1882.**

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
13	9	8	4	11	8	63	53	10	15	2	1	2	3	13	18	17	9	11	5
..	..	..	..	..	..	3	3	..	..	..	..	..	..	..	..	..	..	..	..
83	75	39	41	23	31	407	428	33	30	..	3	2	..	1	3	..	3	..	2
..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
222	187	184	162	123	140	788	684	210	235	30	27	13	12	11	13	10	12	1	8
145	140	106	138	77	78	594	566	141	157	16	11	8	2	2	4	1	1	4	3
86	87	71	53	25	37	320	313	39	51	4	..	..	..	1	..	..	..	..	..
3	2	..	1	..	..	5	4	2	1	..	..	1	1	..	..	..	..	..	1
..	1	..	..	..	..	3	4	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	43	16	23	7	12	281	355	8	13	..	..	..	1	..	..	..	..	..	..
..	..	..	..	..	2	34	33	1	..	1	1	..	1	4	1	6	2	3	2
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	1	..	..	..
11	9	6	4	3	5	81	63	23	12	7	4	6	2	7	7	11	5	6	7
32	26	15	8	6	4	1,543	1,393	11	8	1	4	..	2	2	5	6	3	8	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	1	..	3	..	..	3	..	..	2	1	2	5	1	1
8	9	4	..	2	..	238	160	1	3	1	..	..	..	..	..	1	1	2	1
11	12	9	6	7	4	76	60	13	17	9	6	5	1	4	4	9	5	5	1
..	..	..	..	..	..	..	..	..	..	..	..	2	..	6	2	6	1	8	..
1	1	1	1	1	2	6	7	8	6	9	16	29	23	44	30	35	23	23	17
..	..	..	..	..	..	2	..	..	..	1	..	..	..	..	..	..	..	..	..
5	4	6	6	3	6	23	33	4	8	3	2	5	4	3	3	3	7	3	1
2	7	7	3	6	5	44	30	4	6	3	5	..	6	5	6	2	6	9	7
2	1	2	4	2	2	6	8	8	6	4	5	5	11	4	16	9	9	6	5
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1
1	..	..	..	..	..	3	..	2	..	..	..	..	1	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	13	..	18	..	11
148	614	475	454	296	336	4,521	4,201	522	568	91	88	78	71	109	126	119	110	92	85

Order.	Causes of Death.		35		40		45		50		55		60	
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Miasmatic.*													
	Small-pox and varioloid		7	3	5	4	2	1	4	2	4	1	1	1
	Varicella		..	..	..	..	..	..	..	..	..	..	..	..
	Measles		..	1	..	..	..	..	..	..	..	..	..	..
	Roseola		..	..	..	..	..	..	..	..	..	..	..	..
	Scarlatina		4	3	3	..	1	..	..	..	..	..	1	..
	Diphtheria		1	3	1	..	1	2	..	1	2	..	..	1
	Croup		..	1	..	..	..	..	..	..	..	..	..	..
	Quinsy (tonsilitis, angina maligna, etc.)		1	..	..	..	..	..	..	..	..	..	..	..
	Parotitis		..	..	..	..	..	..	..	..	..	1	..	..
	Goitre		..	..	..	..	..	..	..	..	..	..	..	1
	Whooping-cough		..	..	..	..	..	..	..	..	..	..	..	..
	Erysipelas		3	1	8	..	4	5	7	2	3	1	5	5
	Pyæmia		..	..	..	..	..	..	..	..	..	..	..	..
	Carbuncle		..	..	2	..	..	2	2	..	..	1	..	..
	Dysentery	4,050	12	7	10	4	14	8	7	8	6	13	8	10
	Diarrhœa		6	6	5	..	6	5	4	9	3	7	8	17
	Cholera (Asiatic)		..	..	..	..	..	..	..	..	..	..	..	..
	Cholera morbus		3	2	..	2	2	1	4	4	3	1	2	7
	Entero-colitis		2	3	..	1	1	..	..	2	..	..	..	1
	Cerebro-spinal fever		6	1	4	2	3	1	3	..	1	1	1	..
	Typhus fever		7	1	8	4	..	..	9	..	6	1	4	..
	Typhoid fever		14	8	8	11	13	3	5	4	7	6	..	1
	Continued fever		1	..	..	..	..	..	..	..	..	2	..	..
	Remittent fever		1	4	8	5	3	..	..	3	2	4	3	2
	Intermittent fever		6	3	5	3	5	2	4	5	4	5	2	6
	Typho-malarial fever		4	11	3	6	2	4	3	1	2	2	3	1
	Congestive (malignant intermittent)		..	..	..	..	..	..	..	..	..	..	..	..
	Congestive chills		..	..	1	..	..	1	..	..	..	..	1	1
	Puerperal fever (for other puerperal diseases, see order of women)		..	15	..	1	..	..	..	..	..	..	..	..
	Total miasmatic diseases		78	73	71	43	57	35	58	41	43	46	39	54

and Color—Year 1882—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	142	117	259
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	443	470	913
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,072	994	2,066
..	..	1	1	..	..	..	..	..	1	..	..	..	..	..	..	772	753	1,525
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	364	365	729
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	7	16
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	5	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	289	369	658
3	2	2	3	2	1	2	..	..	..	..	..	..	..	..	..	88	61	149
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	6	6	12
8	8	4	6	3	5	4	5	..	..	1	1	..	..	..	..	218	175	393
11	14	11	13	8	7	4	16	5	3	..	..	1	1	1	..	1,644	1,525	3,169
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	1	..	3	3	1	1	3	..	..	..	..	..	..	..	..	31	35	66
..	..	..	..	1	..	..	1	..	1	..	1	..	..	..	..	247	175	422
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	139	99	238
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	56	9	65
..	2	1	1	..	1	1	..	..	..	..	..	..	..	..	..	203	159	362
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	2	6
2	2	2	4	1	3	3	..	1	..	..	..	..	..	..	..	70	85	155
3	5	4	5	2	3	..	1	..	..	1	..	..	..	..	..	103	104	207
1	4	3	1	1	..	..	..	..	..	..	..	..	..	..	..	64	90	154
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
1	..	1	..	1	1	..	1	..	..	..	..	..	..	..	..	11	5	16
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	59	59
33	39	30	37	22	23	15	27	7	5	2	3	1	1	1	..	5,983	5,676	11,659

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Enthetic or Inoculated.*										
	Syphilis	78	71	16	16	..	3	62	59	1	1
	Malignant pustule	..	..	1	..	..	..	..	..	..	..
	Hydrophobia	..	..	2	..	..	..	..	..	..	..
	Total enthetic or inoculated diseases	78	71	19	16	..	3	62	59	1	1
	Dietetic.										
	Inanition (privation, etc.)	160	118	12	6	2	3	162	115	4	5
	Scurvy	1	..	4	12	..	..	..	..	..	..
	Purpura	12	5	1	3	1	..	5	3	1	..
	Alcoholism *a.* Intemperance	26	14	121	45	..	1	..	..	..	..
	Alcoholism *b.* Delirium tremens	6	1	9	1	1	..	..	..	..	..
	Total dietetic diseases	205	138	147	67	4	4	167	118	5	5
4	*Parasitic.*										
	Aphthæ	5	5	..	..	..	..	5	5	..	..
	Hydatid of uterus	..	1	..	..	..	..	..	..	..	..
	Hydatid of liver	..	..	1	..	..	..	..	..	..	..
	Worms	4	5	1	..	..	..	1	1	..	..
	Total parasitic diseases	9	11	2	..	..	..	6	6	..	..
	Total zymotic class	5,323	5,025	1,120	954	76	66	2,271	2,001	1,072	985
1	*Diathetic.*										
	Gout	4	2	4	2	..	..	..	..	..	..
	Rheumatism	39	35	42	56	2	..	2	3	..	1
	Anæmia	8	11	3	6	..	..	8	6	..	..
	Cancer	61	129	204	338	2	8	..	1	1	..
	Dropsy	..	..	1	1	..	..	..	..	..	..
	Myxœdema	..	..	..	1	..	..	..	..	..	..
	Noma cancrum oris)	5	3	1	1	..	..	..	..	2	..
	Total diathetic diseases	117	180	255	405	4	8	10	10	3	1

and Color—Year 1882—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	1	1	1	..	..	64	62	..	..	..	..	1	1	1	3	5	6	7	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..
..	1	1	1	..	..	64	62	..	..	..	..	1	1	1	3	5	6	9	3
..	..	1	1	..	..	167	121	1	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
2	..	..	..	..	..	8	3	1	..	1	..	1	1	..	1	..	1	1	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	3	1	12	12	20	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2	..	1	..
2	..	1	1	..	..	175	124	2	..	1	..	2	1	4	3	15	13	23	5
..	..	..	..	..	..	5	5	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
2	..	..	2	1	..	4	3	1	2	..	..	..	..	..	..	..	..	..	..
2	..	..	2	1	..	9	8	1	2	..	..	..	..	..	..	1	..	..	..
652	615	477	458	297	336	4,769	4,395	525	570	92	88	81	73	114	132	140	129	124	93
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
1	..	2	..	..	2	5	6	7	6	3	3	5	4	2	6	7	4	7	4
..	..	..	..	..	..	8	6	..	2	..	1	..	..	..	1	..	1	..	1
1	1	1	..	..	..	3	2	2	..	..	..	6	1	4	4	7	8	10	24
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	1	2	..	..	..	5	1	..	2	..	..	..	..	..	..	..	..	..	..
3	2	5	..	..	2	21	15	9	10	3	4	11	5	6	11	15	13	17	29

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Enthetic or Inoculated.*												
	Syphilis	3	..	4	5	4	2	2	2	2	1	1	1
	Malignant pustule	..	..	..	..	1	..	..	..	..	..	..	..
	Hydrophobia	..	..	..	..	..	..	..	..	..	..	..	..
	Total enthetic or inoculated diseases	3	..	4	5	5	2	2	2	2	1	1	1
3	*Dietetic.*												
	Inanition (privation, etc.)	..	..	..	..	..	..	..	..	..	..	..	..
	Scurvy	1	1	..	..	1	..	..	..	1	1	..	2
	Purpura	..	1	..	..	..	..	..	..	1	..	..	..
	Alcoholism *a.* Intemperance	34	9	17	10	19	11	12	9	14	..	9	1
	Alcoholism *b.* Delirium tremens	5	..	3	1	1	..	2	..	..	..	..	..
	Total dietetic diseases	40	11	20	11	21	11	14	9	16	1	9	3
4	*Parasitic.*												
	Aphthæ	..	..	..	..	..	..	..	..	..	..	..	..
	Hydatid of uterus	..	1	..	..	..	..	..	..	..	..	..	..
	Hydatid of liver	..	..	..	..	..	..	..	..	..	..	..	..
	Worms	..	..	..	..	..	..	..	..	..	..	..	..
	Total parasitic diseases	..	1	..	..	..	..	..	..	..	..	..	..
	Total zymotic class	121	85	95	59	83	48	68	52	61	48	49	58
1	*Diathetic.*												
	Gout	1	..	..	..	..	..	1	..	3	1	2	..
	Rheumatism	8	7	8	10	..	8	9	10	9	7	5	3
	Anæmia	1	..	1	..	1	1	..	..	..	2	..	1
	Cancer	17	54	24	55	32	59	38	65	33	53	34	58
	Dropsy	..	..	..	..	..	..	..	..	..	1	..	..
	Myxœdema	..	..	..	..	..	..	..	..	..	1	..	..
	Noma (cancrum oris)	..	1	..	..	..	..	..	..	..	..	..	..
	Total diathetic diseases	27	62	33	65	33	68	41	75	45	65	41	62

and Color—Year 1882—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	94	87	181
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	2	..	2
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	97	87	184
2	2	..	..	..	..	1	1	..	..	..	..	..	..	..	..	172	124	296
..	3	1	2	..	1	..	2	..	..	..	..	..	..	..	..	5	12	17
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	8	21
3	1	2	..	1	..	..	..	..	..	..	..	..	..	..	..	147	59	206
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	2	17
5	7	3	2	1	1	1	3	..	..	..	..	..	..	..	..	352	205	557
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	11	22
38	47	33	39	23	24	16	30	7	5	2	3	1	1	1	..	6,443	5,979	12,422
..	1	..	2	..	..	..	..	..	..	..	..	..	..	..	..	8	4	12
4	1	5	6	3	2	1	4	..	..	..	..	..	..	..	..	81	91	172
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	11	17	28
26	31	21	25	7	16	..	9	1	2	..	1	..	..	..	..	265	467	732
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	6	4	10
30	33	26	33	11	19	1	13	1	2	..	1	1	..	..	..	372	585	957

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Tubercular.*										
	Scrofula	22	24	2	4	1	1	15	14	7	2
	Lumbar abscess (psoas abscess, etc.)	5	2	4	..	..	..	1	..	..	..
	Tabes mesenterica and marasmus	436	408	23	9	6	4	381	356	57	48
	Phthisis pulmonalis	1,198	1,107	1,643	1,299	81	76	43	48	20	29
	Hydrocephalus and tubercular meningitis	339	270	24	26	10	3	150	111	90	80
	Rachitis	12	12	2	..	..	..	7	9	4	2
	Other tubercular diseases	1	1	..	1	..	..	..	..	..	..
	Hodgkin's disease	2	..	..	..	..	..	..	..	..	..
	Total tubercular diseases	2,015	1,824	1,698	1,339	98	84	597	538	178	161
	Total constitutional class	2,132	2,004	1,953	1,744	102	92	607	548	181	162
1	*Nervous.*										
	Meningitis	328	276	67	43	5	5	143	118	78	62
	Encephalitis	10	11	2	4	..	..	6	4	1	3
	Softening of brain	24	26	51	24	2	1	..	1	1	..
	Apoplexy	108	84	209	215	6	6	10	6	2	..
	Insanity	21	25	32	41	2	1	..	..	..	..
	Epilepsy	17	20	11	13	1	3	..	..	..	1
	Convulsions	351	269	9	5	6	2	287	194	52	66
	Laryngismus stridulus	6	7	..	..	..	..	4	4	1	1
	Paralysis	41	16	63	31	2	2	1	1	..	..
	Paraplegia	3	3	4	4	..	1	..	..	..	..
	Hemiplegia	7	10	11	24	1	1	1	..	1	..
	Chorea	1	1	..	2	..	..	..	..	..	..
	Tetanus	1	..	..	..	..	..	..	..	..	..
	Trismus nascentium	21	23	..	..	..	..	21	23	..	..
	Myelitis	7	8	17	11	2	..	..	..	..	1
	Congestion of brain	76	65	16	15	1	..	44	36	14	18
	Embolism of brain	2	4	2	5	..	2	2	..	..	..
	Sciatica	..	1	1	3	..	..	..	..	..	..
	Abscess of brain	3	2	4	..	..	..	1	..	..	1
	Tumor of brain	6	..	9	4	..	..	..	..	..	..

and Color—Year 1882—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	2	2	4	..	..	24	22	..	3	..	1	..	..	..	..	..	..	..	..
..	..	1	..	..	..	2	..	1	1	..	..	..	..	1	1	1	..	1	..
13	11	2	1	..	1	453	417	4	..	2	..	..	..	..	..	..	..	..	..
15	18	8	13	5	9	91	117	21	17	13	42	106	157	365	350	398	356	365	283
42	39	29	23	8	12	319	265	32	17	4	8	1	1	2	1	..	..	1	1
1	..	..	..	1	..	13	11	1	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..
71	70	42	41	14	22	902	832	59	39	20	51	107	158	368	353	399	356	368	284
74	72	47	41	14	24	923	847	68	49	23	55	118	163	374	364	414	369	385	313
39	22	14	15	17	17	291	234	31	27	7	9	4	2	4	1	2	7	4	5
..	..	..	..	1	1	8	8	1	..	..	..	..	1	..	..	..	..	..	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	1	..	1	..	1	1
..	..	..	..	..	..	12	6	1	..	..	1	2	2	8	..	7	5	16	14
..	..	..	..	1	..	1	..	..	1	..	..	1	2	6	5	6	4	7	8
..	..	1	..	1	3	2	4	2	3	1	4	2	2	2	3	3	..	5	4
13	6	5	4	2	2	359	272	..	2	1	..	..	..	..	..	..	..	..	..
..	..	1	1	..	..	6	6	..	1	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	1	2	..	1	..	..	..	..	3	..	7	..	8	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	1	..	..	..	..	2	1	..	..	..	..	..	..	1	..	..	..	1	1
..	..	..	..	..	..	..	..	1	..	..	..	..	2	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	21	23	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	..	1	1	1	..	..	..	1	..	..	1	..	1	2	3
10	1	1	2	0	1	71	58	2	5	1	1	..	..	2	1	2	..	1	2
..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	3	..
..	..	..	..	..	..	..	..	1	..	3	..	1	..	..	..	..	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Tubercular.*												
	Scrofula	..	..	..	..	..	..	..	..	..	..	..	2
	Lumbar abscess (psoas abscess, etc.)	..	..	..	..	1	..	..	..	1	..	..	..
	Tabes mesenterica and marasmus	..	..	..	..	..	..	..	..	..	..	..	..
	Phthisis pulmonalis	330	281	338	197	240	157	186	143	126	81	115	90
	Hydrocephalus and tubercular meningitis	..	..	..	..	1	1	2	1	..	1	..	..
	Rachitis	..	..	..	..	..	..	..	..	..	..	..	..
	Other tubercular diseases	..	..	..	..	1	..	..	1	..	..	..	..
	Hodgkin's disease	..	..	..	..	..		..	..	..	..	..	..
	Total tubercular diseases	330	281	338	197	243	158	188	145	127	82	115	92
	Total constitutional class	357	343	371	262	276	226	229	220	172	147	156	154
1	*Nervous.*												
	Meningitis	8	6	10	7	11	5	8	2	3	3	7	3
	Encephalitis	..	..	..	..	..	2	1	..	1	1	1	3
	Softening of brain	5	2	5	2	5	2	7	3	4	5	12	3
	Apoplexy	16	12	24	21	25	30	33	26	33	22	37	36
	Insanity	10	6	6	3	3	8	3	8	3	6	1	5
	Epilepsy	2	1	3	1	3	3	2	1	..	1	..	3
	Convulsions	..	..	..	..	..	..	..	..	..	..	..	..
	Laryngismus stridulus	..	..	..	..	..	..	..	..	..	..	..	..
	Paralysis	16	1	13	4	17	1	14	1	6	2	6	4
	Paraplegia	..	..	1	..	..	1	1	2	..	..	..	1
	Hemiplegia	..	..	1	1	3	3	4	2	..	6	2	1
	Chorea	..	..	..	..	..	1	..	..	..	..	..	..
	Tetanus	..	..	..	..	..	..	..	..	..	..	..	..
	Trismus nascentium	..	..	..	..	..	..	..	..	..	..	..	..
	Myelitis	4	1	2	3	4	2	1	1	3	4	1	..
	Congestion of brain	1	..	4	1	2	1	1	3	1	2	..	..
	Embolism of brain	1	1	..	1	..	..	..	2	..	..	1	1
	Sciatica	..	..	..	..	..	..	..	2	..	..	..	..
	Abscess of brain	..	..	..	..	..	..	2	..	1	1	..	..
	Tumor of brain	2	..	1	2	4	..	..	..	2	1	..	1

and Color—Year 1882—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	24	28	52
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	9	2	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	459	417	876
56	45	43	37	27	24	15	20	6	9	..	..	..	..	..	..	2,841	2,406	5,247
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	363	296	659
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	12	26
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
57	45	43	37	28	24	15	20	6	9	..	..	..	..	..	..	3,713	3,163	6,876
87	78	69	70	39	43	16	33	7	11	..	1	1	..	..	..	4,085	3,748	7,833
2	..	1	4	1	3	1	1	..	..	..	..	..	..	..	..	395	319	714
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	15	27
10	4	10	8	8	6	5	10	..	2	..	1	..	..	..	..	75	50	125
40	36	38	31	17	28	7	17	1	8	..	2	..	2	..	..	317	299	616
..	4	4	4	1	..	..	..	1	..	..	1	..	1	..	..	53	66	119
..	..	..	..	1	3	..	..	..	..	..	..	..	..	..	..	28	33	61
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	360	274	634
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	7	13
1	4	4	9	5	7	2	6	1	4	..	..	..	..	..	1	104	47	151
1	..	1	1	1	..	1	..	..	..	..	..	..	2	..	..	7	7	14
1	5	1	5	1	6	1	2	..	1	..	..	..	..	..	..	18	34	52
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21	23	44
3	1	1	..	..	..	..	..	..	..	..	..	..	1	..	..	24	19	43
1	2	2	2	..	..	1	1	..	1	..	..	..	..	..	..	92	80	172
..	1	..	2	..	1	..	..	..	..	..	..	..	..	..	..	4	9	13
..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	1	4	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	2	9
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	4	19

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Nervous.*										
	Atrophy of brain	..	1	..	..	..	..	..	..	..	..
	Spinal sclerosis	2	..	1	4	..	..	..	..	..	..
	Cerebro-spinal sclerosis	..	..	1	1	..	..	..	..	..	..
	Atheroma of cerebral arteries	1	..	..	2	..	..	..	..	..	..
	Progressive muscular atrophy	..	..	2	..	..	..	..	..	..	..
	Progressive locomotor ataxia	6	1	3	..	..	..	..	..	..	..
	Tabes dorsalis	..	1	3	..	..	..	..	1	..	..
	Direct effect of solar heat	22	13	56	12	..	1	5	8	1	3
	Total nervous diseases	1,064	867	574	463	31	25	525	396	151	156
2	*Circulatory.*										
	Pericarditis	23	12	23	32	3	1	1	..	..	..
	Aneurism of heart	1	..	2	..	..	..	..	..	..	..
	Aneurism	18	7	45	10	4	..	..	..	..	..
	Embolism	..	2	1	1	..	..	..	1	..	..
	Sclerosis of arteries	..	..	..	1	..	..	..	..	..	..
	Hypertrophy of the heart	45	33	50	46	3	1	1	..	..	..
	Valvular disease of the heart	198	157	269	269	19	11	7	5	1	2
	Syncope	1	1	..	..	..	..	..	..	..	..
	Fatty degeneration of the heart	13	14	27	44	1	..	..	..	..	..
	Endocarditis	14	17	13	18	..	..	1	..	..	..
	Disease of the heart	27	22	35	36	2	2	..	2	1	..
	Angina pectoris	4	4	8	6	..	..	..	..	..	1
	Thrombosis	..	3	2	1	..	..	..	..	..	..
	Phlebitis	1	1	..	3	..	..	1	..	..	..
	Epistaxis	1	1	..	2	..	..	..	..	..	..
	Atrophy of walls of heart	..	1	..	..	..	..	..	..	..	..
	Atheroma of arteries	2	..	4	3	..	..	..	..	..	..
	Endarteritis	..	..	..	1	..	..	..	..	..	..
	Rupture of varicose vein	..	..	..	1	..	..	..	..	..	..
	Total circulatory diseases	347	275	488	474	32	15	11	8	2	3

and Color—*Year* 1882—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	2	1	8	13	1	..	..	..	1	2	6	1	9	1	8	1
62	31	22	23	27	25	787	631	41	40	14	15	12	13	33	13	38	19	57	39
..	..	..	..	2	1	3	1	3	..	3	3	3	3	2	3	5	5	4	4
..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	4	1	5	2
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..
..	..	1	..	..	..	2	..	3	..	3	3	7	3	2	8	5	1	3	4
..	..	1	1	2	4	11	12	16	13	18	10	18	14	17	18	30	23	29	24
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	3	1
..	..	1	..	..	..	2	..	1	3	2	3	1	..	1	4	1	2	2	2
1	..	..	..	..	1	2	3	2	..	..	..	1	1	2	3	4	4	2	2
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	2	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	3	1	4	6	21	18	25	16	27	19	30	22	25	40	50	41	48	41

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Nervous.*												
	Atrophy of brain	..	..	..	..	..	..	..	..	..	..	..	..
	Spinal sclerosis	..	1	..	..	..	..	2	..	..	..	1	..
	Cerebro-spinal sclerosis	..	..	..	..	..	..	..	..	..	..	..	..
	Atheroma of cerebral arteries	..	..	..	..	..	..	..	..	1	..	..	..
	Progressive muscular atrophy	..	..	..	..	..	..	1	..	..	..	..	..
	Progressive locomotor ataxia	2	..	2	..	..	..	1	..	1	..	2	1
	Tabes dorsalis	..	..	..	..	1	..	2	..	..	..	..	..
	Direct effect of solar heat	19	1	8	1	7	1	6	1	2	..	1	2
	Total nervous diseases	86	32	80	47	85	60	90	54	61	54	72	65
2	*Circulatory.*												
	Pericarditis	5	3	7	4	4	2	..	4	..	1	2	5
	Aneurism of heart	..	..	..	..	..	..	..	..	..	..	1	..
	Aneurism	12	1	12	..	6	3	10	5	6	3	6	1
	Embolism	..	..	..	..	..	..	1	..	..	..	..	..
	Sclerosis of arteries	..	..	..	..	..	..	..	1	..	..	..	..
	Hypertrophy of the heart	6	4	5	12	9	6	14	10	10	5	10	6
	Valvular disease of the heart	42	30	52	22	41	33	42	45	37	28	45	51
	Syncope	..	..	..	..	..	..	..	..	1	..	..	..
	Fatty degeneration of the heart	9	5	1	4	6	3	7	5	2	4	4	9
	Endocarditis	4	3	2	2	3	4	1	3	2	3	1	2
	Disease of the heart	7	5	3	6	7	6	4	3	5	5	8	8
	Angina pectoris	..	..	1	3	1	2	2	..	2	..	1	..
	Thrombosis	..	..	..	..	..	..	..	..	..	..	1	..
	Phlebitis	..	1	..	..	..	1	..	1	..	..	..	..
	Epistaxis	..	..	..	..	..	..	..	1	1	..	..	..
	Atrophy of walls of heart	..	..	..	..	..	..	..	..	..	..	..	..
	Atheroma of arteries	..	..	..	..	..	..	1	1	2	..	..	..
	Endarteritis	..	..	..	..	..	..	..	..	..	..	..	..
	Rupture of varicose vein	..	..	..	1	..	..	..	..	..	..	..	..
	Total circulatory diseases	85	52	83	54	77	60	82	79	68	49	79	82

and Color—Year 1882—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	3	4	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	9	1	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	4
1	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	78	25	103
61	58	64	70	36	56	18	37	3	16	..	4	..	6	..	1	1,638	1,330	2,968
3	4	1	..	1	2	..	..	..	..	..	..	..	..	..	..	46	44	90
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	63	17	80
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	3	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
7	5	3	5	3	1	2	6	1	..	..	..	..	..	..	..	95	79	174
30	35	22	33	12	20	4	11	1	4	..	..	..	..	..	..	467	426	893
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
10	9	4	8	..	3	3	2	..	3	..	..	..	..	..	..	50	58	108
1	..	2	..	..	1	1	1	..	..	..	2	..	..	..	..	27	35	62
7	1	1	6	3	3	2	..	..	2	..	..	..	..	..	..	60	58	118
1	..	4	..	..	1	..	1	..	..	..	..	..	..	..	..	12	10	22
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	2	4	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	4	5
..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	1	3	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
2	1	..	1	1	..	..	..	..	..	..	..	..	..	..	..	6	3	9
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
62	55	37	57	22	32	12	21	2	9	..	2	..	..	..	..	835	749	1,584

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Respiratory.*										
	Laryngitis	14	20	6	4	..	..	2	5	6	6
	Bronchitis	611	570	176	226	30	24	426	344	110	123
	Pneumonia	1,170	920	806	576	37	33	441	329	250	210
	Pleuritis	16	12	26	18	..	..	1	4	2	..
	Pleuritis, hydrothorax	..	..	1	..	..	..	..	..	..	..
	Pleuritis, empyema	7	4	11	5	1	1	1	..	1	..
	Gangrene of lungs	..	1	5	2	..	..	..	..	..	..
	Congestion of lungs	56	38	16	19	2	1	32	26	7	3
	Hæmorrhage of lungs	9	1	3	6	1	..	1	..	..	..
	Abscess of lungs	4	..	..	1	..	..	..	..	..	..
	Papilloma of vocal cords	1	..	..	..	..	..	..	..	..	..
	Emphysema and asthma	8	8	52	34	2	1	1	3	1	..
	Abscess of larynx	..	..	1	..	..	..	..	..	..	..
	Œdema glottidis	13	10	2	..	..	..	12	9	1	1
	Abscess of throat	..	1	..	..	..	..	..	1	..	..
	Stricture of larynx	..	1	..	..	..	..	..	..	..	..
	Coryza	..	2	..	..	..	..	..	2	..	..
	Abdominal tumor pressing on thoracic duct	..	..	..	1	..	..	..	..	..	..
	Total respiratory diseases	1,909	1,588	1,105	892	63	60	917	723	378	343
4	*Digestive.*										
	Stomatitis	9	7	..	1	..	..	9	4	..	..
	Pharyngitis	..	3	..	2	..	..	..	2	..	2
	Gastritis	50	36	27	48	..	1	21	12	4	4
	Dyspepsia	18	17	5	4	1	..	16	11	2	2
	Enteritis	104	78	25	19	1	5	74	53	15	9
	Gastro-enteritis	181	147	17	21	2	4	147	118	23	19
	Hæmatemesis	1	1	1	..	..	..	1	..	..	..
	Peritonitis	43	59	29	54	4	2	4	7	..	1
	Ascites	..	..	..	1	..	..	..	..	..	..
	Ulceration of intestines (perforation?)	4	5	1	2	..	..	..	..	1	..
	Intussusception of intestines	11	9	6	11	..	1	4	2	..	..
	Occlusion of bowels	1	..	..	..	..	..	1	..	..	..

and Color—Year 1882—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	3	1	..	1	2	11	16	1	2	..	1	..	..	1	2	1	..	..	2
33	54	18	17	10	9	597	547	11	11	..	4	2	2	2	4	5	2	5	4
94	89	62	45	36	34	883	707	48	45	13	24	41	21	73	40	87	54	107	49
1	1	..	..	..	2	4	7	1	..	1	..	..	1	1	2	3	1	6	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	2	..	..	..	1	2	3	1	..	..	1	1	..	1	1	1	2	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	1	..
4	2	3	2	1	..	47	33	3	1	..	1	..	..	2	..	2	2	3	2
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	1	3	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	2	3	..	1	..	..	1	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	14	10	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
134	151	84	64	48	48	1,561	1,329	65	60	14	31	45	24	81	51	102	63	127	62
..	2	..	..	..	..	9	6	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	4	..	..	..	..	..	..	..	..	..	..	..	1
5	3	3	..	1	1	34	20	3	3	2	..	2	1	4	1	1	4	2	4
1	1	1	..	..	2	20	16	..	..	..	..	..	..	..	..	..	..	1	..
1	..	1	2	..	..	91	64	3	2	2	1	1	4	4	1	2	4	1	2
6	4	1	4	1	1	178	146	2	1	1	1	..	3	2	1	3	1	1	2
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..
2	1	1	..	3	1	10	10	2	8	7	7	10	9	10	16	6	7	5	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	1	1	..	..	1	..	..	1	..	..	..
..	..	3	..	1	..	8	2	1	1	..	..	..	1	1	1	1	3	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Respiratory.*												
	Laryngitis	3	..	1	..	1	..	..	1	..	..	..	..
	Bronchitis	5	10	8	4	13	10	16	8	15	19	18	23
	Pneumonia	114	65	121	51	99	58	84	69	77	56	62	78
	Pleuritis	2	..	2	3	3	3	3	3	9	3	4	3
	Pleuritis, hydrothorax	..	..	..	..	..	..	..	..	..	..	..	..
	Pleuritis, empyema	4	..	1	..	2	..	2	..	..	..	..	..
	Gangrene of lungs	3	1	..	..	1	..	..	..	..	..	..	..
	Congestion of lungs	1	1	2	..	2	2	1	..	..	..	1	1
	Hæmorrhage of lungs	2	..	2	..	2	..	..	..	..	1	..	..
	Abscess of lungs	..	1	..	..	..	..	..	..	..	..	..	..
	Papilloma of vocal cords	..	..	..	..	..	..	..	..	..	..	..	..
	Emphysema and asthma	2	1	1	..	6	2	8	1	11	6	2	6
	Abscess of larynx	..	..	..	..	1	..	..	..	..	..	..	..
	Œdema glottidis	..	..	1	..	..	..	..	..	..	..	..	..
	Abscess of throat	..	..	..	..	..	..	..	..	..	..	..	..
	Stricture of larynx	..	..	..	1	..	..	..	..	..	..	..	..
	Coryza	..	..	..	..	..	..	..	..	..	..	..	..
	Abdominal tumor pressing on thoracic duct	..	..	..	..	..	..	..	1	..	..	..	..
	Total respiratory diseases	136	79	139	59	130	75	114	83	112	85	87	112
4	*Digestive.*												
	Stomatitis	..	..	..	1	..	..	..	..	..	..	..	..
	Pharyngitis	..	..	..	..	..	..	..	..	..	..	..	..
	Gastritis	6	7	3	5	2	2	4	4	2	2	4	5
	Dyspepsia	..	..	..	..	1	..	..	..	..	..	..	1
	Enteritis	2	1	3	1	4	..	4	1	3	2	1	2
	Gastro-enteritis	2	3	2	1	2	..	2	2	..	1	..	2
	Hæmatemesis	..	..	..	..	..	..	1	..	..	..	..	..
	Peritonitis	4	10	5	7	4	6	1	6	1	10	2	3
	Ascites	..	..	..	..	..	..	..	..	..	..	..	..
	Ulceration of intestines (perforation?)	1	1	..	1	..	1	..	..	..	1	..	..
	Intussusception of intestines	..	3	1	..	1	2	..	2	2	2	..	..
	Occlusion of bowels	..	..	..	..	..	..	..	..	..	..	..	..

and Color—Year 1882—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	20	24	44
24	28	22	43	23	27	11	33	9	15	1	..	..	1	..	1	787	796	1,583
57	55	52	42	29	43	24	24	4	12	1	3	..	..	..	..	1,976	1,496	3,472
1	1	1	1	1	1	..	..	..	..	..	..	..	..	..	..	42	30	72
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
1	..	2	1	..	..	..	..	..	..	..	..	..	..	..	..	18	9	27
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	3	8
3	4	..	4	3	3	1	2	1	..	..	..	..	..	..	..	72	57	129
1	2	..	..	..	2	..	..	..	..	..	..	..	..	..	..	12	7	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	5
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
7	7	8	9	4	..	4	1	2	2	..	..	..	..	1	..	60	42	102
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	10	25
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
94	97	87	100	60	76	41	60	16	29	2	3	..	1	1	1	3,014	2,480	5,494
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	9	8	17
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5
3	3	2	8	1	4	2	8	..	2	..	..	..	1	..	..	77	84	161
..	2	..	1	1	1	..	..	..	..	..	..	..	..	..	..	23	21	44
3	4	4	3	..	3	..	1	1	1	..	..	..	..	..	..	129	97	226
3	2	..	1	..	..	..	..	..	1	..	..	..	..	..	..	198	168	366
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
2	5	2	1	..	..	1	..	..	..	..	..	..	..	..	..	72	113	185
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	5	7	12
..	..	2	3	..	..	..	..	..	..	..	..	..	..	..	..	17	20	37
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1

Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
	United States.		Foreign.							
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Digestive.										
Hernia	10	7	14	34	1	..	5	1	..	..
Ulcer of the stomach	3	3	19	10	..	..	..	..	..	..
Hæmorrhage of bowels	..	1	1	..	..	..	..	1	..	..
Colic	5	2	4	1	..	..	4	2	..	..
Fatty degeneration of liver	6	5	5	5	..	..	1	..	..	..
Hypertrophy of liver	2	1	4	11	..	..	..	..	..	..
Cirrhosis of liver	29	22	104	78	2	1	..	..	..	1
Abscess of liver	2	..	8	1	..	..	..	..	..	..
Over-distention of stomach	1	..	..	..	..	..	..	..	..	..
Tumor of liver	..	..	..	1	..	..	..	..	..	..
Obstruction of bile duct	3	1	1	..	..	..	..	..	..	..
Congestion of liver	..	1	2	4	..	..	..	..	..	..
Obstruction of pyloric orifice	..	..	1	..	..	..	..	..	..	..
Atrophy of liver	1	..	1	2	1	..	..	..	..	..
Post-pharyngeal abscess	2	..	..	..	..	..	..	..	..	..
Hepatitis	4	11	37	23	..	..	1	2	..	..
Peritoneal abscess	..	..	1	..	..	..	..	..	..	..
Jaundice	18	16	1	4	..	..	18	15	..	..
Rupture of gall duct	..	..	..	1	..	..	..	..	..	..
Perforation of vermiform appendix	1	1	1	..	..	..	..	..	..	..
Rupture of gall bladder	..	1	..	..	..	..	..	..	..	..
Leucocythæmia	4	1	4	..	..	..	..	..	..	..
Suppurative pancreatitis	1	..	1	1	..	..	..	..	..	..
Fistula in ano	..	..	2	..	..	..	..	..	..	..
Ulceration of colon	..	..	1	..	..	..	..	..	..	..
Fistula, intestinal	..	..	1	..	..	..	..	..	..	..
Splenitis	1	..	..	..	1	..	..	..	..	..
Stricture of œsophagus	..	..	1	..	..	..	..	..	..	..
Stenosis of ascending colon	..	..	..	1	..	..	..	..	..	..
Stricture of rectum	..	..	1	..	..	..	..	..	..	..
Tumor of mesentery	..	1	..	..	..	..	..	..	..	..
Stricture of intestines	1	1	1	1	..	..	..	1	..	..
Tumor of spleen	..	..	1	1	..	..	..	..	..	..
Gall stones	2	..	1	2	..	..	..	..	..	..

and Color—Year 1882—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	5	1	..	..	..	..	..	..	2	..	1	1	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	3	..	1	2	2
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	4	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	1	..	..	1	1	..	1	..	..	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	..
..	..	..	..	..	..	..	1	..	..	..	..	1	..	1	..	6	1	10	6
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	1	3	..	..	..	..	..	3	1	1	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	18	15	..	..	..	..	..	1	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	1	..	1	..	..	1	2	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*												
	Hernia	1	..	2	2	1	6	4	6	3	2	..	8
	Ulcer of the stomach	3	..	2	..	..	2	..	3	7	..	4	..
	Hæmorrhage of bowels	..	..	..	..	..	..	..	..	..	..	1	..
	Colic	..	..	..	..	1	..	1	..	1	..	1	..
	Fatty degeneration of liver	1	..	2	1	2	2	1	1	..	..	1	..
	Hypertrophy of liver	..	1	..	2	1	1	2	2	..	2	1	1
	Cirrhosis of liver	14	16	14	14	21	20	19	14	14	11	14	8
	Abscess of liver	2	..	..	..	1	..	2	..	..	..	..	..
	Over-distention of stomach	..	..	..	..	..	..	..	..	..	..	..	..
	Tumor of liver	..	..	..	..	..	..	..	..	..	..	..	..
	Obstruction of bile duct	..	..	..	..	..	..	..	..	1	..	2	..
	Congestion of liver	..	..	..	..	..	2	..	1	..	..	2	..
	Obstruction of pyloric orifice	..	..	..	..	..	..	..	..	..	..	..	..
	Atrophy of liver	..	1	1	..	..	..	..	1	..	..	1	..
	Post-pharyngeal abscess	..	..	..	..	..	..	..	..	..	..	..	..
	Hepatitis	4	5	2	1	10	6	3	3	7	..	3	2
	Peritoneal abscess	..	..	..	..	..	..	..	..	..	..	..	..
	Jaundice	..	..	..	..	..	1	..	1	..	..	..	1
	Rupture of gall duct	..	..	..	..	..	..	..	..	..	..	..	1
	Perforation of vermiform appendix	..	..	..	..	..	..	..	..	..	..	..	..
	Rupture of gall bladder	..	..	..	..	..	..	..	..	..	..	..	..
	Leucocythæmia	1	..	1	..	2	..	..	..	..	..	..	..
	Suppurative pancreatitis	..	..	..	..	1	1	..	..	..	..	..	..
	Fistula in ano	..	..	..	..	..	..	1	..	1	..	..	..
	Ulceration of colon	..	..	..	..	..	..	..	..	..	..	..	..
	Fistula, intestinal	..	..	..	..	..	..	1	..	..	..	..	..
	Splenitis	..	..	..	..	..	..	..	..	..	..	..	..
	Stricture of œsophagus	..	..	..	..	..	..	..	..	..	..	..	..
	Stenosis of ascending colon	..	..	..	..	..	..	..	1	..	..	..	..
	Stricture of rectum	..	..	..	..	..	..	..	..	1	..	..	..
	Tumor of mesentery	..	..	..	..	..	1	..	..	..	..	..	..
	Stricture of intestines	..	..	..	..	..	..	..	..	..	..	1	..
	Tumor of spleen	..	..	..	..	..	1	..	..	1	..	..	..
	Gall stones	..	..	1	..	..	..	2	2	..	..	..	..

and Color—Year 1882—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
1	4	2	4	1	1	1	3	..	1	..	..	..	..	..	..	24	41	65
2	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	22	13	35
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	9	3	12
..	..	1	1	1	..	..	..	..	..	..	..	..	..	..	..	11	10	21
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	12	18
10	5	5	1	4	3	..	..	..	..	..	..	..	..	..	..	133	100	233
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	1	11
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	5	7
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
7	2	..	2	1	2	1	1	..	..	..	..	..	..	..	..	41	34	75
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	19	20	39
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	1	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	5

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*										
	Vomiting	2	1	..	..	..	..	1	..	1	1
	Impacted fæces	4	..	1	1	..	..	2	..	..	..
	Abscess of rectum	1	..	..	..	..	..	1	..	..	..
	Constipation	1	4	1	..	1	..	1	3	..	..
	Fibro-cystic tumor of abdomen	..	..	..	1	..	..	..	..	..	..
	Hæmorrhoids	..	..	1	..	..	..	..	..	..	..
	Inflammation of rectum	..	..	1	..	..	..	..	..	..	..
	Ischio-rectal abscess	..	..	..	1	..	..	..	..	..	..
	Lienteria	..	..	..	1	..	..	..	..	..	..
	Melæna	1	..	..	..	..	..	1	..	..	..
	Mediastinal tumor pressing on œsophagus	..	..	1	..	..	..	..	..	..	..
	Naso-pharyngeal tumor	1	..	..	..	..	..	..	..	..	..
	Naso-pharyngeal polypus	..	..	1	..	..	..	..	..	..	..
	Total digestive diseases	528	442	335	348	14	14	312	234	46	39
5	*Urinary.*										
	Nephritis	124	120	198	173	11	13	5	8	7	7
	Nephria (Bright's disease)	223	203	417	398	11	6	2	4	1	2
	Uræmia	1	1	1	5	..	..	..	..	..	..
	Diabetes	13	6	16	11	1	..	1	..	..	..
	Calculus	2	1	6	3	..	..	..	..	..	..
	Cystitis	15	3	29	11	..	..	1	..	..	..
	Prostatitis	4	..	3	..	..	..	..	..	..	..
	Pyelitis	3	..	2	..	..	..	..	..	..	..
	Hydrocele	1	..	..	..	..	..	1	..	..	..
	Hypertrophy of prostate	7	..	5	..	..	..	..	..	..	..
	Suppression of urine	5	2	3	..	..	..	3	2	..	..
	Stricture of urethra	9	..	7	..	..	..	..	..	..	..
	Paralysis of bladder	..	..	1	..	..	..	..	..	..	..
	Floating kidney	..	1	..	..	..	..	..	..	..	..
	Addison's disease	..	1	..	..	..	..	..	..	..	..
	Total urinary diseases	407	338	688	601	23	19	13	14	8	9

and Color—Year 1882—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	2	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	.	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	3	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
16	11	11	7	7	5	392	296	12	18	17	10	17	25	28	27	25	29	26	35
5	5	6	6	2	6	25	32	9	7	2	8	3	2	12	8	18	16	23	19
5	4	3	4	2	3	13	17	10	4	2	8	12	11	16	30	32	39	35	51
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..
1	..	..	..	..	..	2	..	..	..	1	..	..	..	1	..	2	4	..	..
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	1	..	..	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	3	2	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	3	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	9	9	10	4	9	45	51	21	11	5	16	15	14	31	39	52	60	61	73

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*												
	Vomiting	..	..	..	..	..	..	..	..	..	..	..	..
	Impacted fæces	..	..	..	..	..	1	..	..	1	..	..	..
	Abscess of rectum	..	..	..	..	..	..	..	..	..	..	..	..
	Constipation	..	..	..	1	..	..	..	..	1	..	..	..
	Fibro-cystic tumor of abdomen	..	..	..	..	..	..	..	..	..	1	..	..
	Hæmorrhoids	1	..	..	..	..	..	..	..	..	..	..	..
	Inflammation of rectum	..	..	..	..	..	..	..	..	..	..	1	..
	Ischio-rectal abscess	..	..	..	..	..	..	..	..	..	..	..	..
	Lienteria	..	..	..	..	..	..	..	..	..	..	..	..
	Melæna	..	..	..	..	..	..	..	..	..	..	..	..
	Mediastinal tumor pressing on œsophagus	..	..	..	..	..	..	..	..	1	..	..	..
	Naso-pharyngeal tumor	..	..	..	..	..	..	..	..	..	..	..	..
	Naso-pharyngeal polypus	..	..	..	..	..	..	..	..	..	..	..	..
	Total digestive diseases	42	48	39	37	54	55	48	50	47	34	39	35
5	*Urinary.*												
	Nephritis	39	24	32	24	25	24	27	25	24	24	22	29
	Nephria (Bright's disease)	74	72	89	42	73	70	65	54	54	54	67	40
	Uræmia	..	2	1	1	..	..	..	..	..	..	..	..
	Diabetes	3	2	1	1	4	1	2	2	4	3	2	..
	Calculus	..	..	1	..	2	..	..	3	..	..	1	..
	Cystitis	2	1	2	..	2	2	4	2	3	1	4	1
	Prostatitis	1	..	..	..	..	..	..	..	..	..	1	..
	Pyelitis	1	..	..	..	1	..	..	..	..	..	2	..
	Hydrocele	..	..	..	..	..	..	..	..	..	..	..	..
	Hypertrophy of prostate	..	..	..	..	..	..	..	..	1	..	3	..
	Suppression of urine	2	..	..	..	..	..	1	..	..	..	..	..
	Stricture of urethra	4	..	..	..	2	..	1	..	3	..	1	..
	Paralysis of bladder	..	..	..	..	..	..	..	..	..	..	1	..
	Floating kidney	..	..	..	..	..	..	..	..	..	..	..	..
	Addison's disease	..	..	..	..	..	..	..	1	..	..	..	..
	Total urinary diseases	126	101	126	68	109	97	110	87	89	82	104	70

and Color—Year 1882—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	5	1	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	4	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
35	27	22	26	11	16	7	15	2	6	..	..	..	1	..	..	863	790	1,653
28	19	10	14	8	9	4	7	..	1	1	1	..	..	..	..	322	293	615
45	37	28	34	14	18	9	17	1	3	1	..	..	..	..	..	640	601	1,241
..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	2	6	8
1	2	2	..	3	2	1	..	..	..	..	..	..	..	..	..	29	17	46
2	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	8	4	12
4	..	5	2	9	..	5	2	1	..	1	..	..	..	..	..	44	14	58
1	..	2	..	1	..	..	..	1	..	..	..	..	..	..	..	7	..	7
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
2	..	3	..	3	..	..	..	..	..	..	..	..	..	..	..	12	..	12
..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	8	2	10
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	..	16
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
85	58	52	51	38	30	20	26	3	4	3	1	..	..	..	..	1,095	979	2,034

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
6	*Generative.*										
	Chlorosis	..	..	..	1	..	..	..	..	..	..
	Ovarian tumor	..	9	..	19	..	1	..	..	..	..
	Cystic degeneration of ovaries	..	2	..	..	..	..	..	..	..	..
	Ovarian cyst	..	6	..	5	..	..	..	..	..	..
	Dysmenorrhœa	..	1	..	..	..	..	..	..	..	..
	Ovarian dropsy	..	..	..	3	..	..	..	..	..	..
	Fibroid uterine polypus	..	1	..	..	..	..	..	..	..	..
	Metritis and metro-peritonitis (not puerperal)	..	5	..	6	..	..	..	..	..	..
	Gangrene of vulva	..	1	..	..	..	..	..	1	..	..
	Hypertrophy and induration of uterus	..	..	..	1	..	..	..	..	..	..
	Fibroid uterine tumor	..	17	..	10	..	3	..	..	..	..
	Hysteria	..	..	..	1	..	..	..	..	..	..
	Ovaritis	..	1	..	1	..	..	..	..	..	..
	Menorrhagia	..	1	..	..	..	1	..	..	..	..
	Metrorrhagia	..	..	..	1	..	..	..	..	..	..
	Pelvic hæmatocele	..	2	..	..	..	..	..	..	..	..
	Retro-uterine hæmatocele	..	..	..	1	..	..	..	..	..	..
	Rupture of ovarian abscess	..	1	..	..	..	..	..	..	..	..
	Rupture of ovaries	..	..	..	1	..	..	..	..	..	..
	Rupture of uterus	..	1	..	..	..	..	..	..	..	..
	Suppuration of testicles	1	..	..	..	..	..	1	..	..	..
	Total generative diseases	1	48	..	50	..	5	1	1	..	..
7	*Locomotory and Osseous.*										
	Arthritis	7	1	2	4	..	..	2	..	..	..
	Osteo-sarcoma of sternum	..	..	..	1	..	..	..	..	..	..
	Necrosis	4	2	5	7	1	..	1	..	..	..
	Spinal disease	18	15	13	1	..	..	..	1	..	1
	Hip disease	13	15	4	2	..	..	1	1	1	..
	Caries	3	3	5	4	..	..	..	1	..	..
	Lumbago	..	..	1	..	..	..	..	..	..	..
	Periostitis of tibia	4	1	..	1	..	..	..	1	..	..
	Pelvic cellulitis	..	1	..	4	..	..	..	..	..	..

and Color—Year 1882—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	1	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	1	..	4
.	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	.	..	..	..	..	1	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	1	..	..	..	1	..	3	..	11	..	10	..	9
..	..	1	..	..	..	3	..	..	..	1	..	1	..	2	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	1	1	1	..	..	..	1	1	..	..	2	..	1	..
1	..	..	..	3	4	4	6	7	6	4	1	4	1	..	1	..	..	2	..
1	..	..	1	1	1	5	3	4	6	4	2	1	1	1	1	..	1	..	..
1	..	..	..	..	..	1	1	..	2	1	..	..	..	..	..	..	1	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	1	1	1	..	1	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
6	*Generative.*												
	Chlorosis	..	..	..	..	..	..	..	..	..	..	..	..
	Ovarian tumor	..	2	..	3	..	4	..	2	..	4	..	2
	Cystic degeneration of ovaries	..	..	..	..	..	..	..	..	..	..	..	..
	Ovarian cyst	..	2	..	2	..	..	..	2	..	..	..	..
	Dysmenorrhœa	..	1	..	..	..	..	..	..	..	..	..	..
	Ovarian dropsy	..	1	..	1	..	1	..	..	..	..	..	..
	Fibroid uterine polypus	..	..	..	1	..	..	..	..	..	..	..	..
	Metritis and metro-peritonitis (not puerperal)	..	1	..	1	..	..	..	..	..	1	..	..
	Gangrene of vulva	..	..	..	..	..	..	..	..	..	..	..	..
	Hypertrophy and induration of uterus	..	..	..	1	..	..	..	..	..	..	..	..
	Fibroid uterine tumor	..	4	..	2	..	6	..	4	..	5	..	..
	Hysteria	..	..	..	1	..	..	..	..	..	..	..	..
	Ovaritis	..	..	..	..	..	..	..	..	..	..	..	..
	Menorrhagia	..	..	..	..	..	..	..	..	..	..	..	..
	Metrorrhagia	..	1	..	..	..	..	..	..	..	..	..	..
	Pelvic hæmatocele	..	..	..	..	..	..	..	..	..	..	..	..
	Retro-uterine hæmatocele	..	..	..	..	..	..	..	..	..	..	..	..
	Rupture of ovarian abscess	..	..	..	..	..	..	..	..	..	..	..	..
	Rupture of ovaries	..	..	..	..	..	..	..	..	..	..	..	..
	Rupture of uterus	..	..	..	..	..	1	..	..	..	..	..	..
	Suppuration of testicles	..	..	..	..	..	..	..	..	..	..	..	..
	Total generative diseases	..	12	..	12	..	12	..	8	..	10	..	2
7	*Locomotory and Osseous.*												
	Arthritis	..	..	..	..	..	3	..	1	2	..	..	..
	Osteo-sarcoma of sternum	..	..	..	..	..	..	..	..	..	1	..	..
	Necrosis	..	..	2	..	..	2	..	..	..	1	..	2
	Spinal disease	..	..	3	..	1	..	3	..	..	..	1	..
	Hip disease	..	2	1	..	..	..	..	..	..	..	..	..
	Caries	2	..	..	..	..	1	..	1	1	..	..	..
	Lumbago	..	..	..	..	..	..	..	..	..	..	..	..
	Periostitis of tibia	..	..	..	..	..	..	..	1	..	..	..	..
	Pelvic cellulitis	..	2	..	..	..	1	..	..	..	..	..	..

and Color—Year 1882—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	1	..	1	..	1	..	..	..	..	..	..	..	..	..	28	28
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	11	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	27	27
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	1	..	2	..	2	..	2	..	..	..	..	..	..	..	..	1	98	99
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	9	5	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	9	18
..	..	2	1	..	..	..	..	..	..	..	..	..	..	..	..	31	16	47
1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17	17	34
..	1	1	..	1	..	..	..	..	..	..	..	..	..	..	..	8	7	15
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	2	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
7	*Locomotory and Osseous.*										
	Phosphorous disease of bones of face	1	..	..	..	..	..	..	..	..	..
	Inflammation of elbow and hand	..	..	1	..	..	..	..	..	..	..
	White swelling of knee	1	..	..	..	..	..	..	..	..	..
	Total locomotory and osseous	51	38	31	24	1	..	4	4	1	1
8	*Integumentary.*										
	Abscess	12	20	10	9	..	..	8	12	..	1
	Adenitis of lymphatic glands of body	..	..	1	..	..	..	..	..	..	..
	Bedsores	..	..	..	1	..	..	..	..	..	..
	Bunion of toe	..	..	..	1	..	..	..	..	..	..
	Boils	1	..	..	..	..	..	..	..	1	..
	Exophthalmos	..	..	..	1	..	..	..	..	..	..
	Fibroid tumor of neck	1	..	..	..	..	..	..	..	..	..
	Inflammation of mesenteric gland	1	..	..	..	..	..	..	..	..	..
	Ichthyosis	..	1	..	..	..	..	..	1	..	..
	Pemphigus	1	2	..	1	..	..	1	1	..	1
	Eczema	10	2	..	..	..	..	9	2	1	..
	Sclerema	1	..	..	..	..	..	1	..	..	..
	Otorrhœa	1	1	2	..	..	..	..	..	..	1
	Otitis	12	7	8	..	..	..	5	4	..	1
	Ophthalmia	1	2	..	..	..	..	1	2	..	..
	Lympho-adenitis	1	..	..	..	..	..	1	..	..	..
	Ulcer	2	2	3	8	..	1	..	..	..	..
	Gangrene	1	1	2	4	..	..	..	..	..	..
	Tumor	1	..	1	1	..	..	1	..	..	..
	Omphalitis	1	..	..	..	..	..	1	..	..	..
	Paronychia of finger	..	..	..	1	..	..	..	..	..	..
	Suppuration of axillary glands	..	..	1	..	..	..	..	..	..	..
	Salpingitis	..	1	..	..	..	..	..	..	..	..
	Scleroderma	1	1	..	..	..	..	1	..	..	..
	Tympanitis	..	1	..	..	..	..	..	..	..	1
	Enlargement and ulceration of parotid and maxillary glands	..	..	1	..	..	..	..	..	..	..
	Total integumentary diseases	48	41	27	29	..	1	29	22	2	5
	Total local class	4,355	3,637	3,248	2,881	164	139	1,812	1,402	588	556

and Color—Year 1882—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
3	1	2	1	5	5	15	12	13	14	11	3	9	3	3	3	2	2	5	1
..	..	1	2	..	..	9	15	1	2	1	1	..	2	1	2	1	3	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	10	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	.	..	..	..	..	..	..	..	..	..
1	1	..	..	..	..	1	2	..	1	..	..	..	..	..	..	..	..	..	..
1	1	2	..	..	..	8	6	3	..	1	..	1	..	..	..	..	..	1	..
..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	1	1	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	2	3	2	..	..	37	31	7	3	2	1	1	2	1	2	2	4	3	1
230	205	134	108	95	98	2,859	2,369	184	162	90	96	129	106	202	186	271	228	327	261

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
7	*Locomotory and Osseous.*												
	Phosphorous disease of bones of face..	..	..	..	..	..	..	..	..	..	..	..	..
	Inflammation of elbow and hand.....	..	..	..	..	1	..	..	..	..	..	..	..
	White swelling of knee.....	..	..	..	..	..	..	..	..	..	..	..	..
	Total locomotory and osseous.	2	4	6	..	2	7	3	3	3	2	1	2
8	*Integumentary.*												
	Abscess.....	2	..	1	1	1	..	1	..	1	1	1	1
	Adenitis of lymphatic glands of body.	..	..	..	..	..	..	1	..	..	..	..	..
	Bedsores.....	..	..	..	1	..	..	..	..	..	..	..	..
	Bunion of toe	..	..	..	..	..	..	..	..	..	..	..	..
	Boils	..	..	..	..	..	..	..	..	..	..	..	..
	Exophthalmos.....	..	..	..	..	..	..	..	..	..	1	..	..
	Fibroid tumor of neck.....	..	..	..	..	..	..	..	..	..	..	1	..
	Inflammation of mesenteric gland.....	..	..	..	..	..	..	..	..	..	..	..	..
	Ichthyosis	..	..	..	..	..	..	..	..	..	..	..	..
	Pemphigus.....	..	..	..	..	..	..	..	1	..	..	..	..
	Eczema.....	..	..	..	..	..	..	..	..	..	..	..	..
	Sclerema	..	..	..	..	..	..	..	..	..	..	..	..
	Otorrhœa.....	..	..	..	..	..	..	..	..	..	..	..	..
	Otitis	..	..	2	..	1	..	1	..	2	..	..	..
	Ophthalmia.....	..	..	..	..	..	..	..	..	..	..	..	..
	Lympho-adenitis	..	..	..	..	..	..	..	..	..	..	..	..
	Ulcer.....	..	..	1	1	..	1	..	2	..	1	..	2
	Gangrene.....	..	..	..	..	..	..	..	1	..	1	..	2
	Tumor.....	..	..	..	..	..	..	1	..	..	..	..	1
	Omphalitis.....	..	..	..	..	..	..	..	..	..	..	..	..
	Paronychia of finger.....	..	..	..	..	..	..	..	..	..	..	..	1
	Suppuration of axillary glands.....	..	..	..	..	..	..	..	..	1	..	..	..
	Salpingitis.....	..	1	..	..	..	..	..	..	..	..	..	..
	Scleroderma	..	..	..	..	..	..	..	..	..	..	..	1
	Tympanitis.....	..	..	..	..	..	..	..	..	..	..	..	..
	Enlargement and ulceration of parotid and maxillary glands.....	..	..	..	..	1	..	..	..	..	..	..	..
	Total integumentary diseases.	2	1	4	3	3	1	4	4	4	4	2	8
	Total local class.....	479	329	477	280	460	367	451	368	384	320	384	375

and Color—Year 1882—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
3	4	3	2	1	..	..	..	..	..	..	..	..	..	..	..	82	62	144
1	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	22	29	51
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	2	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	4
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	20	7	27
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	3	1	..	..	..	1	..	..	..	..	..	..	..	..	..	5	10	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	5	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
1	3	1	..	..	2	1	..	..	..	..	..	..	..	..	..	75	70	145
339	304	268	308	168	214	99	161	26	64	5	10	..	8	1	2	7,603	6,518	14,121

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Children.*										
	Premature birth	353	264	..	..	4	8	353	264	..	..
	Preternatural birth	53	39	..	..	1	2	53	39	..	..
	Cyanosis	69	42	..	..	1	..	65	42	3	..
	Atelectasis pulmonum	85	72	..	..	4	..	84	72	1	..
	Spina bifida	14	14	..	..	..	1	14	14	..	..
	Imperforate anus	7	1	..	..	..	..	7	1	..	..
	Other malformations	11	17	..	..	1	..	11	17	..	..
	Hæmorrhage of umbilicus	9	12	..	..	..	..	9	12	..	..
	Cleft palate	1	1	..	..	..	..	1	1	..	..
	Total developmental diseases of children	602	462	..	..	11	11	597	462	4	..
2	*Women.*										
	Childbirth	..	15	..	24	..	1	..	..	..	..
	Flooding	..	5	..	7	..	..	..	..	..	..
	Puerperal metritis and metro-peritonitis	..	40	..	83	..	..	..	..	..	..
	Puerperal septicæmia	..	25	..	27	..	1	..	..	..	..
	Puerperal pyæmia	..	1	..	..	..	..	..	..	..	..
	Puerperal phlebitis	..	..	..	1	..	..	..	..	..	..
	Puerperal convulsions	..	20	..	15	..	2	..	..	..	..
	Puerperal mania	..	2	..	7	..	..	..	..	..	..
	Puerperal uræmia	..	2	..	3	..	..	..	..	..	..
	Puerperal albuminuria	..	..	..	2	..	..	..	..	..	..
	Vomiting of pregnancy	..	1	..	1	..	..	..	..	..	..
	Miscarriage and abortion	..	18	..	27	..	2	..	..	..	..
	Phlegmasia dolens	..	1	..	3	..	..	..	..	..	..
	Placenta prævia	..	1	..	9	..	..	..	..	..	..
	Albuminuria of childbirth	..	2	..	.	..	..	..	..	..	..
	Albuminuria of pregnancy	..	2	..	2	..	..	..	..	..	..
	Puerperal pelvic cellulitis	..	1	..	..	..	..	..	..	..	..
	Uræmia of pregnancy	..	..	..	1	..	..	..	..	..	..
	Total developmental diseases of women	..	136	..	212	..	6	..	..	..	..

and Color—Year 1882—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	353	264	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	53	39	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	68	42	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	85	72	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	14	14	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	7	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	11	17	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	9	12	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	601	462	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	10	..	6	..	7
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	5	..	2
..	..	..	..	..	..	..	..	..	..	..	1	..	6	..	27	..	30	..	28
..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	20	..	14	..	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	.	..	..	..	..	..	..	..	..	..	..	6	..	10	..	8	..	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	3	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	4	..	10	..	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	1	..	21	..	81	..	87	..	70

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Children.*												
	Premature birth	..	..	..	..	..	..	..	..	..	..	..	..
	Preternatural birth	..	..	..	..	..	..	..	..	..	..	..	..
	Cyanosis	..	..	..	..	..	..	..	..	..	..	..	..
	Atelectasis pulmonum	..	..	..	..	..	..	..	..	..	..	..	..
	Spina bifida	..	..	..	..	..	..	..	..	..	..	..	..
	Imperforate anus	..	..	..	..	..	..	..	..	..	..	..	..
	Other malformations	..	..	..	..	..	..	..	..	..	..	..	..
	Hæmorrhage of umbilicus	..	..	..	..	..	..	..	..	..	..	..	..
	Cleft palate	..	..	..	..	..	..	..	..	..	..	..	..
	Total developmental diseases of children	..	..	..	..	..	..	..	..	..	..	..	..
2	*Women.*												
	Childbirth	..	7	..	5	..	1	..	..	..	..	..	..
	Flooding	..	1	..	1	..	1	..	..	..	..	..	1
	Puerperal metritis and metro-peritonitis	..	21	..	10	..	..	..	..	..	..	..	..
	Puerperal septicæmia	..	6	..	3	..	..	..	..	..	..	..	..
	Puerperal pyæmia	..	..	..	..	..	..	..	..	..	..	..	..
	Puerperal phlebitis	..	1	..	..	..	..	..	..	..	..	..	..
	Puerperal convulsions	..	5	..	..	..	..	..	..	..	..	..	..
	Puerperal mania	..	..	..	..	..	..	..	..	..	..	..	..
	Puerperal uræmia	..	1	..	1	..	1	..	..	..	..	..	..
	Puerperal albuminuria	..	..	..	..	..	..	..	..	..	..	..	..
	Vomiting of pregnancy	..	..	..	..	..	..	..	..	..	..	..	..
	Miscarriage and abortion	..	12	..	6	..	..	..	..	..	..	..	..
	Phlegmasia dolens	..	..	..	..	..	..	..	..	..	..	..	..
	Placenta prævia	..	2	..	1	..	..	..	..	..	..	..	..
	Albuminuria of childbirth	..	..	..	..	..	..	..	..	..	..	..	..
	Albuminuria of pregnancy	..	..	..	1	..	..	..	..	..	..	..	..
	Puerperal pelvic cellulitis	..	..	..	..	..	..	..	..	..	..	..	..
	Uræmia of pregnancy	..	..	..	..	..	..	..	..	..	..	..	..
	Total developmental diseases of women	..	56	..	28	..	3	..	..	..	..	..	1

and Color—Year 1882—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	353	264	617
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	53	39	92
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	69	42	111
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	85	72	157
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	14	28
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	1	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	17	28
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	12	21
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	602	462	1,064
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	39	39
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	123	123
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	52	52
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	35	35
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	45	45
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	348	348

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Age.*										
	Senile gangrene	4	1	7	6	1	..	..	..	..	..
	Senile debility (old age)	41	69	171	314	3	14	..	..	..	..
	Total diseases of old age	45	70	178	320	4	14	..	..	..	..
4	*Nutrition.*										
	Atrophy	16	9	..	..	1	..	15	7	1	..
	Asthenia (debility)	59	58	1	4	..	1	58	56	..	1
	Total diseases of nutrition	75	67	1	4	1	1	73	63	1	1
	Total developmental class	722	735	179	536	16	32	670	525	5	1
1	*Accident and Negligence.*										
	Fractures and contusions	55	6	103	7	1	1	2	..	..	..
	Wounds	8	3	16	..	..	..	..	..	..	..
	Killed by vehicles in the street	47	9	40	12	1	..	..	..	1	1
	Fall	100	38	164	54	2	2	..	3	5	4
	Burns and scalds	46	38	17	24	1	2	3	..	10	9
	Poison	10	7	8	3	..	..	1	1	1	1
	Suffocation (asphyxia by)	16	11	13	7	1	..	7	7	..	1
	Drowning	58	3	127	7	2	..	1	..	..	..
	Neglect and exposure	..	..	1	..	..	..	..	..	..	..
	Surgical operations	11	10	5	13	..	..	3	..	1	1
	Abortion by hot-water injections	..	..	..	1	..	..	..	..	..	..
	Frost-bite of feet	..	1	..	..	..	..	..	..	..	..
	Total accident and negligence	351	126	494	128	8	5	17	11	18	17
2	*Homicide.*										
	By gunshot	10	3	6	4	1	..	..	..	..	1
	By blows	12	..	15	3	..	..	..	..	..	..
	By cut, stab	2	1	8	1	..	..	..	..	..	..
	By strangulation	1	1	..	..	..	..	1	1	..	..
	By instrumental abortion	..	1	..	2	..	..	..	..	..	..
	By other means	1	2	1	2	..	..	..	1	..	..
	Total homicidal deaths	26	8	30	12	1	..	1	2	..	1

and Color—Year 1882—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	16	8	..	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	58	57	..	..	..	..	..	..	..	..	..	..	..	1
..	1	..	..	..	..	74	65	..	1	..	..	..	..	..	..	..	..	..	1
..	1	..	..	..	..	675	527	..	1	1	1	..	21	..	81	..	87	..	71
..	1	1	1	1	..	4	2	2	..	9	..	15	..	13	2	16	..	16	..
1	..	..	..	..	1	1	1	1	2	4	..	3	..	1	..	5	..	1	..
2	2	2	2	4	..	9	5	10	6	9	..	2	..	5	1	3	..	10	..
2	5	10	2	6	2	23	16	17	10	14	1	8	2	10	3	26	4	22	3
13	4	5	6	2	6	33	25	4	3	1	3	2	8	5	2	3	4	1	2
1	..	..	..	..	..	3	2	1	1	1	1	..	..	1	1	..	..	5	1
1	..	1	..	..	..	9	8	..	..	1	..	..	3	5	3	1	..	2	..
1	..	..	..	1	1	3	1	14	2	10	..	14	..	14	..	15	..	18	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	4	1	..	..	1	..	..	..	2	3	1	4	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	12	19	11	14	10	89	61	49	24	50	5	44	13	56	17	70	12	75	10
..	..	..	1	..	..	..	2	2	..	1	..	3	..	1	1	3	..	6	..
..	..	1	..	..	..	1	..	1	..	1	..	..	..	3	1	4	..	6	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	3	..	1	1	1	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	1	..
..	..	1	1	..	..	2	4	3	..	2	..	4	..	7	3	8	3	14	1

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Age.*												
	Senile gangrene	..	..	..	..	..	..	3	..	1	..	1	1
	Senile debility (old age)	..	..	..	..	..	..	..	3	3	3	8	16
	Total diseases of old age	..	..	..	..	..	..	3	3	4	3	9	17
4	*Nutrition.*												
	Atrophy	..	..	..	..	..	..	..	..	..	..	..	..
	Asthenia (debility)	..	1	..	..	1	1	..	1	1	..	..	1
	Total diseases of nutrition	..	1	..	..	1	1	..	1	1	..	..	1
	Total developmental class	..	57	..	28	1	4	3	4	5	3	9	19
x	*Accident and Negligence.*												
	Fractures and contusions	21	2	21	..	13	2	14	..	2	1	6	1
	Wounds	4	..	2	..	1	..	..	..	..	..	1	..
	Killed by vehicles in the street	10	2	3	1	7	1	8	3	4	..	1	..
	Fall	22	2	20	6	24	11	29	6	15	4	14	6
	Burns and scalds	3	5	..	3	2	2	5	..	1	1	3	1
	Poison	2	1	2	1	..	1	2	..	..	..	1	..
	Suffocation (asphyxia by)	1	1	..	1	2	..	3	..	1	..	3	..
	Drowning	27	1	21	..	18	..	15	..	7	..	5	1
	Neglect and exposure	..	..	1	..	..	..	..	..	..	..	..	..
	Surgical operations	..	2	2	2	1	6	2	1	1	1	1	..
	Abortion by hot-water injections	..	..	..	..	..	..	..	..	..	..	..	..
	Frost-bite of feet	..	..	..	..	..	..	..	1	..	..	..	..
	Total accident and negligence	91	16	72	14	68	23	78	11	31	7	35	9
2	*Homicide.*												
	By gunshot	..	2	..	..	..	1	..	..	..	..	..	1
	By blows	3	..	5	1	1	..	1	..	1	..	..	..
	By cut, stab	1	1	..	..	2	..	..	..	1	..	..	..
	By strangulation	..	..	..	..	..	..	..	..	..	..	..	..
	By instrumental abortion	..	..	..	..	..	..	..	..	..	..	..	..
	By other means	..	1	1	..	..	..	..	..	..	..	..	1
	Total homicidal deaths	4	4	6	1	3	1	1	..	2	..	..	2

and Color—*Year* 1882—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
1	2	..	1	2	1	1	1	2	..	..	1	..	..	..	..	11	7	18
18	26	38	50	44	79	50	110	29	50	16	21	5	17	1	8	212	383	595
19	28	38	51	46	80	51	111	31	50	16	22	5	17	1	8	223	390	613
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	9	25
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	60	62	122
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	76	71	147
19	28	38	51	46	80	51	111	31	50	16	22	5	17	1	8	901	1,271	2,172
2	1	3	..	1	..	..	1	..	1	..	..	..	..	..	..	158	13	171
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	24	3	27
..	..	2	2	3	..	1	..	..	..	..	..	..	..	..	..	87	21	108
5	3	7	6	4	4	3	..	1	3	..	1	..	1	..	..	264	92	356
..	..	..	2	..	1	..	..	..	..	..	..	..	..	..	..	63	62	125
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	18	10	28
..	1	..	..	1	1	..	..	..	..	..	..	..	..	..	..	29	18	47
2	1	1	1	..	..	..	1	..	..	1	..	..	..	..	..	185	10	195
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	23	39
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
9	6	13	12	9	6	4	2	1	4	1	1	..	1	..	..	845	254	1,099
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	7	23
..	..	..	1	..	..	..	..	..	..	.	..	..	..	..	..	27	3	30
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	2	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	4	6
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	56	20	76

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Suicide.*										
	By poisons	11	8	36	13	..	..	..	..	..	..
	By drowning	1	..	8	3	..	..	..	..	..	..
	By hanging	3	1	22	3	..	..	..	..	..	..
	By leap	2	2	8	..	..	..	..	..	..	..
	By gunshot	14	1	35	2	..	..	..	..	..	..
	By cutting	4	1	12	3	1	..	..	..	..	..
	By illuminating gas	..	..	1	1	..	..	..	..	..	..
	By other means	1	..	3	..	..	..	..	..	..	..
	Total suicidal deaths	36	13	125	25	1	..	..	..	..	..
4	*Execution.*										
	Name of criminal executed :										
	William Sindram, April 21	1	..	..	..	..	..	..	..	..	..
	Augustus D. Leighton, May 9	..	..	1	..	1	..	..	..	..	..
	Total violent deaths	414	147	650	165	11	5	18	13	18	18
	Total deaths at all ages and from all causes	12,946	11,548	7,150	6,280	369	334	5,378	4,489	1,864	1,722

and Color—Year 1882 (Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	1	3	3	3	2	2	5	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..	..
..	..	..	..	..	..	..	..	..	..	1	..	1	..	2	1	2	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2	1	1	..
..	..	..	..	..	..	..	..	..	..	1	..	1	..	7	..	6	..	7	1
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	3	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	2	..	3	4	13	6	14	5	16	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
21	12	20	12	14	10	91	65	52	24	54	5	51	17	76	26	93	20	106	16
977	305	678	619	420	468	9,317	8,203	829	806	260	245	379	380	766	789	918	833	942	754

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Suicide.*												
	By poisons	7	3	7	2	8	2	4	1	4	..	4	2
	By drowning	3	..	1	..	1	..	..	..	1	1	..	..
	By hanging	3	1	..	..	7	..	2	..	5	..	1	..
	By leap	2	..	1	..	1	..	1	..	..	..	..	..
	By gunshot	9	..	8	..	2	1	6	..	1	..	..	1
	By cutting	2	..	1	..	5	..	..	1	..	..	2	2
	By illuminating gas	..	..	..	1	..	..	..	..	1	..	..	..
	By other means	..	..	1	..	1	..	..	..	..	..	..	..
	Total suicidal deaths	26	4	19	3	25	3	13	2	12	1	7	5
4	*Execution.*												
	Name of criminal executed:												
	William Sindram, April 21	..	..	..	..	..	..	..	..	..	..	..	..
	Augustus D. Leighton, May 9	..	..	..	..	..	..	..	..	..	..	..	..
	Total violent deaths	121	24	97	18	96	27	92	13	45	8	42	16
	Total deaths at all ages and from all causes	1,078	838	1,040	647	916	672	843	657	667	526	640	622

and Color—Year 1882—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	47	21	68
..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	9	3	12
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	25	4	29
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	10	2	12
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	49	3	52
1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	16	4	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	4
4	..	3	..	3	..	..	..	1	..	..	..	..	..	..	..	161	38	199
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
13	6	16	13	12	6	4	2	2	4	1	1	..	1	..	..	1,064	312	1,376
496	463	424	481	288	367	186	337	73	134	24	37	7	27	3	10	20,096	17,828	37,924

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Miasmatic.*										
	Small-pox and varioloid	3	2	5	2	1	..	..	1	1	..
	Varicella	4	4	..	..	..	..	3	3	..	1
	Measles	334	313	37	32	4	3	109	83	131	136
	Scarlatina	324	347	43	30	..	..	36	31	68	63
	Diphtheria	446	478	40	45	5	..	52	43	115	107
	Croup	332	273	18	21	1	1	45	34	109	67
	Quinsy (tonsilitis, angina maligna, etc.)	3	8	1	2	..	..	..	2	2	1
	Parotitis	2	..	..	..	..	..	2	..	..	..
	Whooping-cough	165	154	4	4	5	4	80	88	45	37
	Erysipelas	61	60	31	23	1	2	44	40	1	6
	Pyæmia	..	..	1	2	..	..	..	..	..	..
	Carbuncle	3	..	3	1	..	..	..	..	..	..
	Dysentery	73	73	50	82	..	1	24	25	16	11
	Diarrhœa	1,317	1,180	109	137	22	24	1,075	1,000	197	142
	Cholera (Asiatic)	..	..	..	..	..	..	..	..	..	..
	Cholera morbus	5	6	16	17	..	..	..	..	..	..
	Entero-colitis	160	150	9	14	6	4	124	121	30	25
	Cerebro-spinal fever	98	100	19	6	..	..	28	29	21	10
	Typhus fever	4	4	6	1	..	..	..	..	..	..
	Typhoid fever	118	93	164	96	5	4	1	1	1	1
	Continued fever	1	1	1	3	..	..	..	..	1	..
	Remittent fever	71	60	19	24	4	..	17	8	14	7
	Intermittent fever	58	64	22	35	1	1	10	11	7	6
	Typho-malarial fever	45	57	29	23	1	..	..	3	1	1
	Congestive chills	4	5	1	2	..	..	..	1	..	2
	Goitre	..	..	..	1	..	..	..	..	..	..
	Puerperal fever (other puerperal diseases, see order of women)	..	16	..	25	..	..	..	..	..	..
	Total miasmatic diseases	3,631	3,448	628	628	56	44	1,650	1,524	760	625
2	*Enthetic or Inoculated.*										
	Syphilis	79	64	27	12	4	2	65	47	1	4
	Malignant pustule	..	..	1	..	..	..	..	..	..	..
	Hydrophobia	1	..	..	..	..	..	..	..	..	..
	Gangrenous septicæmia from vaccination	1	..	..	..	..	..	1	..	..	..
	Total enthetic or inoculated diseases	81	64	27	12	4	2	66	47	1	4

and Color — Year 1883.

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	1	1	1	..	..	..	..	..	1	3	..	..	..	..
..	..	..	..	..	..	3	4	1	..	..	..	..	..	..	..	..	..	..	..
59	52	22	25	10	13	331	309	31	27	4	1	3	..	..	3	..	3	1	1
66	73	62	55	39	46	271	268	76	74	12	10	3	10	2	6	..	6	..	2
94	102	57	70	44	52	362	374	103	110	10	12	1	9	3	5	1	3	2	4
72	66	48	51	41	32	315	250	34	40	1	3	..	..	..	1	..	..	..	..
..	1	..	1	..	1	2	6	..	3	..	..	..	..	1	1	..	..	..	..
..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
14	23	15	3	6	2	160	153	7	2	1	1	1	..	..	1	..	..	..	..
1	2	..	..	1	..	47	48	2	..	1	..	1	3	3	4	5	1	4	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
5	4	2	6	3	5	50	51	11	4	4	6	4	3	5	10	8	6	5	7
22	15	14	11	4	1	1,312	1,169	8	6	4	6	1	1	6	4	5	5	5	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	3	..	3	1	..	1	..	..	1	3	1	2	1	2	..
6	4	..	..	1	1	161	151	2	2	..	..	..	1	..	..	..	2	1	..
5	17	6	6	5	4	65	66	19	18	8	10	10	5	5	2	2	1	3	1
1	..	..	..	..	..	1	..	..	..	..	1	..	2	1	..	3	1	..	..
3	4	1	2	4	3	10	11	18	14	16	14	40	28	64	39	47	23	24	17
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..
6	2	3	3	4	3	44	23	6	5	2	4	3	2	2	8	9	6	4	5
5	8	5	5	3	5	30	37	10	6	2	2	4	3	5	4	2	8	6	6
..	1	1	3	2	2	4	10	5	8	7	6	10	13	7	11	12	5	7	7
..	..	..	..	..	..	..	3	2	..	..	..	..	1	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	12	..	14	..	9
359	374	236	241	167	173	3,172	2,937	337	319	72	76	81	83	108	115	96	82	66	68
1	..	1	..	..	..	68	51	..	..	1	..	..	..	4	5	4	1	7	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	1	..	..	..	69	51	1	..	1	..	..	..	4	5	4	1	7	2

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Miasmatic.*												
	Small-pox and varioloid	1	..	2	..	..	..	1	..	..	..	1	..
	Varicella	..	..	..	..	..	..	..	..	..	..	..	..
	Measles	1	..	..	1	..	..	..	..	..	..	..	..
	Scarlatina	2	1	..	..	1	..	..	..	..	..	..	..
	Diphtheria	3	1	1	1	..	1	..	2	..	..	..	1
	Croup	..	..	..	..	..	..	..	..	..	..	..	..
	Quinsy (tonsilitis, angina maligna, etc.)	..	..	..	..	..	..	1	..	..	..	..	..
	Parotitis	..	..	..	..	..	..	..	..	..	..	..	..
	Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	1
	Erysipelas	3	3	5	3	3	4	2	2	2	..	6	6
	Pyæmia	..	..	..	..	1	..	..	..	..	..	..	..
	Carbuncle	..	..	..	..	2	..	1	1	1	..	..	..
	Dysentery	4	11	4	4	6	1	6	9	2	8	4	8
	Diarrhœa	3	9	4	4	6	11	12	8	5	6	10	16
	Cholera (Asiatic)	..	..	..	..	..	..	..	..	..	..	..	..
	Cholera morbus	..	1	1	2	2	4	..	2	2	2	2	1
	Entero-colitis	2	2	1	1	1	..	..	..	..	1	..	3
	Cerebro-spinal fever	2	1	..	1	2	..	..	..	..	1	..	..
	Typhus fever	3	..	1	1	..	..	..	..	1	..	..	..
	Typhoid fever	18	14	13	10	7	4	8	2	2	3	8	4
	Continued fever	1	1	..	..	..	..	..	2	..	..	..	..
	Remittent fever	4	5	2	2	5	2	2	1	3	4	1	7
	Intermittent fever	6	5	3	1	3	2	3	1	..	4	1	8
	Typho-malarial fever	3	2	3	4	3	4	7	3	3	2	1	3
	Congestive chills	..	..	..	..	..	..	..	2	1	1	1	..
	Goitre	..	..	..	..	..	..	..	1	..	..	..	..
	Puerperal fever (other puerperal diseases, see order of women)	..	4	..	..	..	1	..	..	..	..	..	..
	Total miasmatic diseases	56	60	40	35	42	34	43	36	22	32	35	58
2	*Enthetic or Inoculated.*												
	Syphilis	9	6	1	3	5	1	3	3	2	1	..	2
	Malignant pustule	..	..	..	..	1	..	..	..	..	..	..	..
	Hydrophobia	..	..	..	..	..	..	..	..	..	..	..	..
	Gangrenous septicæmia from vaccination	..	..	..	..	..	..	..	..	..	..	..	..
	Total enthetic or inoculated diseases	9	6	1	3	6	1	3	3	2	1	..	2

and Color—Year 1883—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	4	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	371	345	716
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	367	377	744
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	486	523	1,009
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	350	294	644
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	10	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	169	158	327
3	2	1	1	2	..	1	1	1	..	..	..	..	1	..	..	92	83	175
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	1	7
3	10	2	7	3	5	1	4	1	..	..	..	..	..	..	1	123	155	278
11	9	13	25	13	13	6	14	2	4	..	1	..	1	..	1	1,426	1,317	2,743
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	1	2	2	1	1	..	..	..	1	1	..	..	..	..	.	21	23	44
..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	169	164	333
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	117	106	223
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	5	15
2	1	3	3	..	1	2	1	..	..	..	..	..	..	..	..	282	189	471
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	4	6
1	4	2	4	..	..	..	1	..	1	..	..	..	..	..	..	90	84	174
2	3	..	1	2	3	1	5	..	..	..	..	..	..	..	..	80	99	179
2	2	..	3	..	1	..	..	..	..	..	..	..	..	..	..	74	80	154
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	7	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	41	41
26	34	23	46	22	24	12	26	4	6	1	1	..	2	..	2	4,259	4,076	8,335
..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	105	76	181
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	108	76	184

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Dietetic.*										
	Inanition (privation, etc.)	121	91	11	7	1	3	123	91	5	5
	Scurvy	..	..	2	4	..	..	..	..	..	..
	Purpura	8	5	4	1	..	..	5	3	..	..
	Alcoholism *a.* Intemperance	48	18	84	36	1	1	..	..	..	..
	Alcoholism *b.* Delirium tremens	10	1	22	3	..	..	..	..	..	..
	Total dietetic diseases	187	115	123	51	2	4	128	94	5	5
4	*Parasitic.*										
	Aphthæ	5	5	..	..	..	..	5	5	..	..
	Hydatid	..	..	..	1	..	..	..	..	..	..
	Worms	2	1	..	2	..	..	..	..	1	1
	Total parasitic diseases	7	6	..	3	..	..	5	5	1	1
	Total zymotic class	3,906	3,633	778	694	62	50	1,849	1,670	767	635
1	*Diathetic.*										
	Gout	4	1	3	2	..	..	..	..	..	..
	Rheumatism	25	39	35	44	..	7	..	..	..	..
	Anæmia	7	7	3	4	..	..	3	4	..	..
	Cancer	41	141	180	312	4	8	1	..	..	1
	Dropsy	2	..	..	..	1	..	..	..	..	..
	Lupus exedens	1	..	..	..	1	..	..	..	..	..
	Noma (cancrum oris)	3	4	2	..	..	..	..	2	..	..
	Total diathetic diseases	83	195	223	362	6	15	4	6	..	1
2	*Tubercular.*										
	Scrofula	15	10	1	..	1	..	10	7	3	1
	Lumbar abscess (psoas abscess, etc.)	1	..	4	1	..	..	..	..	..	..
	Tabes mesenterica and marasmus	414	369	10	12	13	9	374	344	34	26
	Phthisis pulmonalis	1,172	1,095	1,675	1,349	70	72	33	32	26	26
	Hydrocephalus and tubercular meningitis	285	237	22	16	5	8	112	113	83	61
	Rachitis	14	8	1	..	1	..	9	6	4	1
	Other tubercular diseases	..	..	1	1	.	..	..	..	..	..
	Total tubercular diseases	1,901	1,718	1,714	1,379	90	89	538	502	150	115
	Total constitutional class	1,984	1,913	1,937	1,741	96	104	542	508	150	116

and Color— *Year* 1883– (Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	..	1	..	..	..	130	96	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..
1	..	..	..	1	..	7	3	..	..	..	..	..	1	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	2	1	5	2	5	7	26	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2	..	6	..
2	..	1	..	1	..	137	99	..	..	..	..	2	2	7	3	7	8	33	10
..	..	..	..	..	..	5	5	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
1	..	..	2	..	..	2	3	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	2	..	..	7	8	..	..	..	..	..	..	..	..	..	1	..	..
363	374	238	243	168	173	3,385	3,095	338	319	74	76	83	85	119	123	107	92	106	80
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
..	1	2	2	..	..	2	3	5	7	2	4	2	2	4	5	6	4	6	7
..	..	..	..	..	..	3	4	..	..	..	..	..	..	..	1	..	..	1	..
..	..	1	..	1	1	3	2	1	1	2	1	3	1	1	4	6	14	5	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	1	1	..	2	3	2	1	..	..	..	..	..	..	..	..	..	..
..	1	4	3	2	1	10	12	8	10	4	5	5	3	5	10	13	18	12	26
..	..	..	1	..	1	13	10	..	..	1	..	..	..	1	..	1	..	..	..
..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
11	5	2	3	1	1	422	379	1	1	1	1	..	..	..	..	..	..	..	..
12	15	11	12	3	2	85	87	11	19	22	37	131	166	356	362	402	393	388	298
32	25	25	14	13	7	265	220	25	21	3	7	3	..	3	1	1	1	..	1
..	..	1	..	..	..	14	7	1	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
55	45	40	30	17	11	800	703	38	41	27	45	134	166	360	363	404	396	388	299
55	46	44	33	19	12	810	715	46	51	31	50	139	169	365	373	417	414	400	325

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Dietetic.*												
	Inanition (privation, etc.)	..	..	1	..	..	..	..	1	..	..	..	..
	Scurvy	..	..	..	..	..	1	..	..	..	..	..	1
	Purpura	..	1	3	..	..	..	1	..	..	..	..	..
	Alcoholism *a.* Intemperance	29	10	17	5	19	2	17	7	7	3	3	6
	Alcoholism *b.* Delirium tremens	4	2	7	..	5	..	4	..	1	..	2	..
	Total dietetic diseases	33	13	28	5	24	3	22	8	8	3	5	7
4	*Parasitic.*												
	Aphthæ	..	..	..	..	..	..	..	..	..	..	..	..
	Hydatid	..	..	..	..	..	..	..	..	..	..	..	..
	Worms	..	..	..	..	..	..	..	..	..	..	..	..
	Total parasitic diseases	..	..	..	..	..	..	..	..	..	..	..	..
	Total zymotic class	98	79	69	43	72	38	68	47	32	36	40	67
1	*Diathetic.*												
	Gout	..	..	1	1	1	1	..	..	2	..	..	..
	Rheumatism	2	5	2	4	5	3	4	5	4	6	6	7
	Anæmia	..	1	..	..	..	1	1	2	1	1	1	..
	Cancer	9	46	16	65	18	40	40	69	36	58	34	51
	Dropsy	..	..	..	..	..	..	..	..	..	..	..	..
	Lupus exedens	..	..	1	..	..	..	..	..	..	..	..	..
	Noma (cancrum oris)	..	..	..	..	..	..	1	..	..	..	..	..
	Total diathetic diseases	11	52	20	70	24	45	46	76	43	65	41	58
2	*Tubercular.*												
	Scrofula	..	..	..	..	..	..	..	..	..	..	..	..
	Lumbar abscess (psoas abscess, etc.)	1	1	1	..	1	..	..	..	..	..	..	..
	Tabes mesenterica and marasmus	..	..	..	..	..	.	..	..	..	..	..	..
	Phthisis pulmonalis	334	302	292	196	237	134	194	146	144	99	123	61
	Hydrocephalus and tubercular meningitis	2	1	3	..	..	..	1	1	..	..	1	..
	Rachitis	..	..	..	..	..	..	..	..	..	..	..	..
	Other tubercular diseases	..	..	..	..	..	..	1	..	..	..	..	..
	Total tubercular diseases	337	304	296	196	238	134	196	147	144	99	124	61
	Total constitutional class	348	356	316	266	262	179	242	223	187	164	165	119

and Color—Year 1883—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	132	98	230
..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	2	4	6
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	6	18
1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	132	54	186
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	32	4	36
3	2	1	..	..	2	..	..	..	..	..	..	..	1	..	..	310	166	476
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	9	16
29	37	24	46	23	26	12	26	4	6	1	1	..	3	..	2	4,684	4,327	9,011
..	..	1	..	2	..	..	..	..	..	..	..	..	..	..	..	7	3	10
3	11	1	4	4	5	1	1	1	..	..	..	..	..	..	..	60	83	143
2	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	10	11	21
19	35	10	31	14	12	3	4	1	2	..	..	..	1	..	..	221	456	677
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	4	9
24	46	12	36	20	17	5	5	3	2	..	..	..	1	..	..	306	557	863
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	10	26
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	424	381	805
61	63	44	42	14	24	6	11	2	2	1	1	..	..	..	..	2,847	2,443	5,290
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	307	253	560
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	8	23
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
62	63	44	42	14	24	6	11	2	2	1	1	..	..	..	..	3,615	3,097	6,712
86	109	56	78	34	41	11	16	5	4	1	1	..	1	..	..	3,921	3,654	7,575

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Nervous.*										
	Meningitis	334	264	86	35	3	7	132	118	78	86
	Encephalitis	11	11	4	4	1	1	1	2	1	3
	Softening of brain	28	19	33	33	2	1	2	1	1	..
	Apoplexy	104	82	236	204	8	3	9	4	..	1
	Insanity	19	17	43	43	2	1	..	..	..	..
	Epilepsy	19	30	16	11	1	1	1	..	1	..
	Convulsions	283	221	7	3	7	3	224	174	47	39
	Laryngismus stridulus	8	1	..	..	..	..	5	1	2	..
	Paralysis	27	19	46	31	1	..	..	..	..	..
	Paraplegia	5	..	5	2	..	..	..	..	..	..
	Hemiplegia	10	10	14	17	2	3	..	1	..	..
	Chorea	1	..	..	2	..	..	..	..	..	..
	Tetanus	3	1	..	..	..	..	..	..	..	..
	Trismus nascentium	33	22	..	..	..	..	32	22	1	..
	Myelitis	10	11	8	10	1	..	1	..	..	..
	Congestion of brain	76	46	10	2	..	..	41	27	21	9
	Embolism of brain	1	1	1	6	1	..	..	..	..	..
	Thrombosis of brain	1	..	..	..	..	..	..	..	..	..
	Abscess of brain	4	3	5	4	1	..	1	..	1	1
	Tumor of brain	3	3	10	6	..	..	..	..	..	..
	Atrophy of brain	..	..	1	..	..	..	..	..	..	..
	Neuralgia	..	1	..	..	..	..	..	..	..	..
	Sclerosis of brain	1	..	1	..	..	..	..	..	..	..
	Atheromatous degeneration of coats of blood vessels of brain	..	2	3	..	..	..	..	..	..	..
	Cerebro-spinal sclerosis	1	..	1	3	..	..	..	..	..	..
	Multiple sclerosis of spinal cord	..	..	2	1	..	..	..	..	..	..
	Fatty degeneration of cerebral arteries	..	..	..	4	..	..	..	..	..	..
	Endarteritis of cerebral arteries	..	..	1	..	..	..	..	..	..	..
	Progressive muscular atrophy	1	2	2	1	..	..	..	..	..	..
	Softening of spinal cord	..	2	..	1	..	..	..	..	..	..
	Progressive locomotor ataxia	3	1	5	..	..	..	..	..	..	..
	Tabes dorsalis	..	..	7	2	..	..	..	..	..	..
	Direct effect of solar heat	14	11	46	12	..	..	3	9	..	..
	Total nervous diseases	1,000	780	593	437	30	20	452	359	153	119

and Color—Year 1883—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
40	26	19	14	15	9	284	233	26	22	12	1	8	9	2	10	16	4	10	4
2	..	..	1	1	2	5	8	2	2	..	..	1	2	1	1	1	..	1	1
..	..	..	..	1	..	4	1	1	..	..	..	..	2	2	..	..	2	..	1
..	1	..	..	2	1	11	7	1	..	1	..	2	1	1	1	6	3	12	6
..	..	..	..	..	..	..	..	..	..	..	..	..	2	6	2	4	7	5	3
1	..	2	1	..	1	5	2	2	2	2	5	3	2	4	5	2	5	4	4
8	7	3	..	2	..	284	220	3	4	2	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	7	1	..	..	..	..	..	..	..	..	..	..	1	..
1	..	..	..	..	..	1	..	..	..	1	..	..	..	..	1	1	1	7	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	1	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	33	22	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	1	..	..	2	1	..	..	..	..	1	1	..	2	1	5	2	4
4	2	..	1	2	1	68	40	2	4	..	..	1	1	..	..	1	..	2	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	3	1	..	..	..	..	..	..	..	1	1	..	..	..
..	..	..	..	..	..	..	..	..	1	..	..	2	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
.	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	1	..	2	..	8	9	1	1	..	..	1	1	4	4	6	..	8	2
58	36	27	18	25	14	715	546	39	37	18	6	21	22	21	27	41	30	55	27

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Nervous.*												
	Meningitis	12	2	16	4	9	3	8	2	4	1	4	2
	Encephalitis	..	..	..	..	..	..	..	..	4	..	..	..
	Softening of brain	1	2	5	3	3	1	5	6	6	6	9	8
	Apoplexy	18	6	25	19	37	34	31	25	42	32	49	38
	Insanity	6	6	4	7	8	4	9	5	7	10	3	5
	Epilepsy	3	1	2	4	1	2	1	1	1	2	2	..
	Convulsions	..	..	..	..	..	..	..	..	..	..	..	..
	Laryngismus stridulus	..	..	..	..	..	..	..	..	..	..	..	..
	Paralysis	7	9	9	1	9	2	11	3	5	4	3	4
	Paraplegia	..	..	1	1	1	..	..	..	1	..	1	..
	Hemiplegia	1	1	..	1	2	1	3	..	3	1	3	3
	Chorea	..	..	1	..	..	..	..	..	..	..	..	..
	Tetanus	..	..	1	..	..	..	..	..	..	..	1	..
	Trismus nascentium	..	..	..	..	..	..	..	..	..	..	..	..
	Myelitis	2	2	2	1	2	..	3	3	..	1	1	1
	Congestion of brain	2	..	1	..	1	..	1	..	..	..	1	..
	Embolism of brain	..	..	..	..	1	1	..	2	..	1	..	..
	Thrombosis of brain	..	..	..	..	..	..	..	..	..	..	..	..
	Abscess of brain	..	1	3	..	..	1	2	1	..	..	..	..
	Tumor of brain	4	2	1	..	2	1	2	1	1	2	..	1
	Atrophy of brain	..	..	..	..	..	..	..	..	..	..	..	..
	Neuralgia	..	..	..	..	..	..	..	..	..	..	..	..
	Sclerosis of brain	..	..	..	..	..	..	..	..	1	..	..	..
	Atheromatous degeneration of coats of blood vessels of brain	..	..	..	..	..	..	..	..	..	..	1	..
	Cerebro-spinal sclerosis	..	..	..	..	..	..	..	..	..	..	2	..
	Multiple sclerosis of spinal cord	..	..	..	..	..	..	..	..	..	1	1	..
	Fatty degeneration of cerebral arteries	..	..	..	..	..	..	..	..	..	..	..	2
	Endarteritis of cerebral arteries	..	..	..	..	..	..	..	..	..	..	..	..
	Progressive muscular atrophy	..	1	..	..	..	..	..	..	..	..	1	..
	Softening of spinal cord	..	1	..	..	..	1	..	..	..	..	..	..
	Progressive locomotor ataxia	..	..	1	1	1	..	2	..	..	..	2	..
	Tabes dorsalis	..	..	2	..	2	..	1	..	1	1	1	..
	Direct effect of solar heat	12	1	5	..	4	..	4	..	1	2	2	1
	Total nervous diseases	68	35	79	42	83	51	83	49	77	64	87	65

and Color—*Year* 1883—(Continued).

65		70		75		80		85		90		95		100 AND UPWARDS.		TOTAL BY SEXES.		TOTAL BOTH SEXES.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
5	1	1	1	1	..	1	..	1	..	..	..	..	..	..	..	420	299	719
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	15	15	30
6	9	7	2	9	5	3	2	..	2	..	..	..	..	..	..	61	52	113
31	33	37	33	17	25	16	14	2	1	..	3	1	4	..	1	340	286	626
3	3	3	4	2	1	..	1	1	..	1	..	..	..	..	..	62	60	122
2	..	2	2	..	1	..	3	..	..	..	..	..	..	..	..	35	41	76
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	290	224	514
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	1	9
1	7	7	3	9	3	2	6	..	4	..	1	..	..	..	..	73	50	123
2	..	1	1	..	..	2	..	1	..	..	..	..	..	..	..	10	2	12
4	5	2	4	2	2	2	7	..	..	..	..	..	..	..	..	24	27	51
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	33	22	55
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	21	39
..	1	1	1	3	..	2	1	..	..	..	..	..	..	..	..	86	48	134
..	1	..	..	..	..	..	2	..	..	..	..	..	..	..	..	2	7	9
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	9	7	16
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	13	9	22
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	1
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	1	..	..	1	1	..	..	1	..	..	..	..	..	3	2	5
..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	2	3	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	4	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	1	1	..	..	..	1	..	..	..	..	..	..	..	..	..	3	3	6
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	8	1	9
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	7	2	9
3	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	60	23	83
59	64	64	56	44	37	31	41	5	7	2	5	1	5	..	1	1,593	1,217	2,810

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Circulatory.*										
	Pericarditis	17	19	30	17	3	5	..	..	..	..
	Aneurism of heart	..	..	2	..	..	..	..	..	..	..
	Aneurism of aorta	13	10	36	18	3	2	..	..	..	..
	Aneurism of innominata	1	..	..	..	..	..	..	..	..	..
	Embolism of portal vein	1	..	..	..	..	..	1	..	..	..
	Ossification of valves of heart	1	..	1	..	..	..	..	..	..	..
	Hypertrophy of the heart	29	49	56	50	3	1	..	1	..	1
	Valvular disease of the heart	212	204	362	334	21	13	2	5	2	1
	Ossification of coronary arteries	1	..	..	1	..	..	..	..	..	..
	Rupture of heart	..	..	1	..	..	..	..	..	..	..
	Fatty degeneration of the heart	13	27	27	45	..	1	..	..	..	..
	Endocarditis	13	19	18	8	1	..	2	2	..	..
	Disease of the heart	21	17	33	30	..	1	..	1	..	..
	Angina pectoris	5	7	15	8	..	1	..	..	..	..
	Thrombosis of femoral vein	1	..	..	2	..	..	..	..	..	..
	Thrombosis of popliteal vein	..	..	1	1	..	..	..	..	..	..
	Phlebitis	2	..	..	1	..	..	2	..	..	..
	Epistaxis	2	..	..	1	..	..	2	..	..	..
	Atheroma of arteries	..	1	..	..	..	..	..	..	..	..
	Endarteritis	..	..	1	1	..	..	..	..	..	..
	Rupture of varicose vein	..	..	..	3	..	..	..	..	..	..
	Rupture of abdominal aneurism	..	..	1	..	..	..	..	..	..	..
	Arterial fibrosis	..	1	..	..	..	..	..	..	..	..
	Atheromatous degeneration of heart	1	..	..	..	..	..	..	..	..	..
	Atheromatous degeneration of coronary arteries	1	..	..	..	..	..	..	..	..	..
	Thrombosis of left ventricle	1	..	..	..	..	..	..	..	..	..
	Total circulatory diseases	335	354	584	520	31	24	9	9	2	2
3	*Respiratory.*										
	Laryngitis	20	15	4	2	..	..	4	3	5	3
	Bronchitis	554	445	209	227	30	27	386	279	100	96
	Pneumonia	1,063	932	884	530	46	37	370	305	210	175
	Pleuritis	24	21	43	21	..	1	3	4	3	..

and Color—Year 1883.—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	2	1	..	1	2	2	4	4	5	7	1	5	3	..	6	2	1	..
..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	1	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	2	..	4	3	6	5	3	2	3	3	7	7	4
1	..	1	1	3	1	9	8	15	25	20	26	17	19	20	24	31	22	47	32
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	..	1	1	..	..	..	1	..	..	1	..	..	1	5
..	..	..	..	..	1	2	3	1	6	2	2	4	3	2	2	1	..	4	..
1	..	..	..	1	..	2	1	3	1	1	2	..	2	4	3	..	3	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	2	..	..	..	..	..	..	1	..	..	..	..	..	..
..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
2	1	3	2	4	3	20	17	24	40	31	43	28	34	31	35	43	35	65	46
1	1	2	..	2	1	14	8	2	4	..	3	..	..	1	..	1	..	..	1
33	25	12	9	4	3	535	412	12	6	1	..	2	1	3	3	6	8	4	3
77	78	50	43	19	22	726	623	55	54	11	19	38	19	74	55	82	58	100	59
1	1	..	2	1	1	8	8	..	2	..	..	1	..	7	3	3	1	5	3

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Circulatory.*												
	Pericarditis	3	..	4	2	5	5	5	..	3	2	1	2
	Aneurism of heart	..	..	..	..	..	..	1	..	..	..	..	..
	Aneurism of aorta	7	2	9	1	8	5	7	4	6	7	5	1
	Aneurism of innominata	..	..	..	..	1	..	..	..	..	..	..	..
	Embolism of portal vein	..	..	..	..	..	..	..	..	..	..	..	..
	Ossification of valves of heart	..	..	..	..	..	..	..	..	..	..	..	..
	Hypertrophy of the heart	6	9	9	7	4	7	5	8	7	10	4	7
	Valvular disease of the heart	48	37	59	49	64	45	56	51	41	37	48	54
	Ossification of coronary arteries	..	..	..	..	..	..	..	..	..	..	..	..
	Rupture of heart	..	..	..	..	..	..	..	..	..	..	..	..
	Fatty degeneration of the heart	3	..	4	7	8	8	4	7	6	8	2	8
	Endocarditis	4	2	1	2	2	..	3	..	2	..	..	1
	Disease of the heart	2	1	7	2	6	3	..	2	6	7	8	5
	Angina pectoris	1	1	2	1	2	1	1	3	8	..	2	2
	Thrombosis of femoral vein	..	..	..	1	1	..	..	1	..	..	..	..
	Thrombosis of popliteal vein	..	..	..	..	..	..	1	1	..	..	..	..
	Phlebitis	..	..	..	..	..	..	..	..	..	..	..	..
	Epistaxis	..	..	..	..	..	..	..	..	..	..	..	1
	Atheroma of arteries	..	..	..	..	..	..	..	..	..	..	..	..
	Endarteritis	1	..	..	..	..	..	..	..	..	..	..	..
	Rupture of varicose vein	..	..	..	1	..	..	..	1	..	..	..	..
	Rupture of abdominal aneurism	1	..	..	..	..	..	..	..	..	..	..	..
	Arterial fibrosis	..	..	..	..	..	..	..	..	..	..	..	..
	Atheromatous degeneration of heart	..	..	..	..	..	..	..	..	..	..	..	..
	Atheromatous degeneration of coronary arteries	..	..	..	..	..	..	..	..	..	..	..	..
	Thrombosis of left ventricle	..	..	..	..	..	..	..	..	..	..	..	..
	Total circulatory diseases	76	52	95	73	101	74	83	78	70	71	70	81
3	*Respiratory.*												
	Laryngitis	2	..	1	..	..	1	1	..	..	..	1	..
	Bronchitis	7	6	13	11	9	12	18	22	15	18	17	30
	Pneumonia	129	64	137	62	146	63	109	47	98	61	85	80
	Pleuritis	5	4	7	1	7	3	11	3	1	..	5	3

and Color—Year 1883—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
4	3	..	1	..	1	..	..	..	..	..	..	..	..	..	..	47	36	83
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
1	..	2	..	..	..	..	1	..	1	..	..	..	..	..	..	49	28	77
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	2	..	2
9	5	9	9	9	3	3	3	..	2	..	..	..	..	..	..	85	99	184
43	35	23	42	18	14	12	14	3	2	..	2	..	..	..	..	574	538	1,112
1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	1
2	10	4	8	2	8	2	1	..	..	..	..	..	..	..	..	40	72	112
2	..	..	3	1	2	..	1	..	..	..	..	..	..	..	..	31	27	58
7	6	4	5	2	1	..	2	1	..	..	..	..	..	..	..	54	47	101
1	2	2	2	..	1	..	1	..	..	..	..	..	..	..	..	20	15	35
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
72	62	45	71	34	31	18	24	4	5	..	2	..	..	..	..	919	874	1,793
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	24	17	41
29	27	35	34	27	30	19	31	9	12	1	4	..	2	1	..	763	672	1,435
73	63	45	58	22	36	10	23	6	14	1	3	..	..	..	1	1,947	1,462	3,409
4	1	1	4	1	4	..	2	1	..	..	..	..	..	..	..	67	42	109

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Respiratory.*										
	Pleuritis, hydrothorax	..	..	5	1	..	..	..	..	..	..
	Pleuritis, empyema	9	6	10	3	1	..	2	..	1	..
	Gangrene of lungs	..	..	4	1	..	..	..	..	..	..
	Congestion of lungs	37	34	11	22	1	1	26	27	1	..
	Hæmorrhage of lungs	3	6	6	5	..	..	..	1	..	..
	Abscess of lungs	1	..	3	..	..	..	..	..	..	..
	Emphysema and asthma	9	9	32	35	..	1	1	2	..	..
	Œdema glottidis	11	19	2	..	..	..	12	17	..	..
	Coryza	1	..	..	..	..	..	1	..	..	..
	Total respiratory diseases	1,732	1,487	1,213	847	78	67	805	638	320	274
4	*Digestive.*										
	Stomatitis	9	5	..	1	..	..	6	4	1	..
	Pharyngitis	1	1	..	..	..	..	1	1	..	..
	Gastritis	24	42	36	45	2	2	17	20	2	3
	Dyspepsia	19	18	..	2	1	..	18	13	1	..
	Enteritis	88	59	21	18	3	3	58	46	10	3
	Gastro-enteritis	150	135	15	18	3	2	131	107	14	19
	Hæmatemesis	..	..	1	..	..	..	..	..	..	..
	Peritonitis	41	46	39	61	2	1	12	6	..	1
	Ascites	1	..	..	..	1	..	1	..	..	..
	Ulceration of intestines (perforation?)	2	..	..	1	..	..	1	..	..	..
	Intussusception of intestines	11	11	7	4	..	..	6	5	..	1
	Stricture of intestines	..	..	..	1	..	..	..	..	..	..
	Occlusion of intestines	..	1	..	..	..	..	..	1	..	..
	Hernia	8	8	27	20	1	..	2	2	..	..
	Ulcer of the stomach	7	6	23	13	..	..	..	..	..	..
	Hæmorrhage of bowels	2	2	..	..	..	..	2	2	..	..
	Colic	3	2	2	2	..	..	1	1	..	..
	Fatty degeneration of liver	3	5	8	9	..	..	..	..	..	..
	Hypertrophy of liver	3	1	2	9	..	..	..	..	2	..
	Cirrhosis of liver	40	22	120	83	2	1	..	..	..	..
	Abscess of liver	3	2	7	5	..	..	..	..	..	..

and Color—Year 1883—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
1	3	..	..	..	..	4	3	..	1	1	..	1	..	4	1	2	1	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..	..
1	1	..	..	1	4	29	32	1	..	..	..	..	2	1	..	1	..	2	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	1	2	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	1	..	..	1	..	2	3	..	..	..	..	..	..	..	..	1	1	..	1
..	1	..	..	..	..	12	18	..	1	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
114	111	64	54	28	31	1,331	1,108	70	68	13	22	42	22	92	63	100	70	116	70
1	1	..	..	1	..	9	5	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	1	20	24	2	2	..	1	..	1	1	4	1	3	..	5
..	1	..	1	..	..	19	15	..	1	..	..	..	..	..	1	..	..	..	..
2	3	4	..	..	1	74	53	3	4	3	1	4	2	4	2	2	2	2	2
1	3	1	1	2	3	149	133	..	1	..	..	1	1	1	2	2	..	3	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	1	1	..	..	15	8	6	7	9	2	6	5	5	10	6	14	4	11
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	6	6	..	1	1	..	..	1	1	..	1	2	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	2	2	1	..	1	..	2	..	2	..	3	..	4	..
..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	1	..	1	3	1
..	..	..	..	..	..	2	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	1	..	..	..	..	1	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	3	2	..	3
..	..	..	..	..	..	2	..	..	..	1	1	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	5	5	6	11	11
..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	4	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Respiratory.*												
	Pleuritis, hydrothorax	..	..	..	..	1	..	1	..	..	..	1	..
	Pleuritis, empyema	..	..	1	..	..	..	2	..	2	..	..	1
	Gangrene of lungs	..	..	1	..	..	..	..	..	..	..	..	..
	Congestion of lungs	2	2	..	..	1	2	1	2	3	2	1	2
	Hæmorrhage of lungs	1	1	..	..	1	2	1	1	1	1	1	1
	Abscess of lungs	2	..	..	..	1	..	..	..	..	..	..	..
	Emphysema and asthma	1	1	5	1	1	3	4	6	4	3	10	5
	Œdema glottidis	..	..	..	..	..	..	..	..	..	..	..	..
	Coryza	..	..	..	..	..	..	..	..	..	..	..	..
	Total respiratory diseases	149	78	165	75	167	86	148	81	124	85	121	122
4	*Digestive.*												
	Stomatitis	..	..	..	..	..	..	..	..	..	..	..	..
	Pharyngitis	..	..	..	..	..	..	..	..	..	..	..	..
	Gastritis	2	3	3	5	1	5	1	9	4	4	6	5
	Dyspepsia	..	..	..	..	..	..	..	1	..	1	..	..
	Enteritis	2	..	1	..	2	1	1	..	2	5	3	1
	Gastro-enteritis	..	2	1	1	..	..	1	4	1	..	1	1
	Hæmatemesis	1	..	..	..	..	..	..	..	..	..	..	..
	Peritonitis	5	9	3	11	8	1	2	5	4	3	1	5
	Ascites	..	..	..	..	..	..	..	..	..	..	..	..
	Ulceration of intestines (perforation?)	..	..	..	1	..	..	..	..	..	..	..	..
	Intussusception of intestines	2	..	2	2	..	..	1	..	..	..	1	1
	Stricture of intestines	..	..	..	..	..	..	..	..	..	..	..	..
	Occlusion of intestines	..	..	..	..	..	..	..	..	..	..	..	..
	Hernia	3	4	2	4	2	3	1	1	2	2	2	6
	Ulcer of the stomach	2	1	8	3	4	3	4	..	1	2	3	2
	Hæmorrhage of bowels	..	..	..	..	..	..	..	..	..	..	..	..
	Colic	..	..	1	..	..	2	1	..	1	..	..	..
	Fatty degeneration of liver	2	2	..	3	1	2	2	..	..	..	..	..
	Hypertrophy of liver	..	..	..	1	..	1	..	4	1	..	1	1
	Cirrhosis of liver	17	13	24	8	19	15	33	19	20	18	10	3
	Abscess of liver	2	..	..	..	1	2	1	1	1	..	1	1

and Color—*Year* 1883—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	6
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	19	9	28
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	5
1	5	2	1	1	3	1	3	1	..	..	..	..	..	..	..	48	56	104
..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	9	11	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	4
4	5	4	7	2	4	3	4	..	..	..	..	..	..	..	..	41	44	85
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	19	32
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
112	101	89	105	53	78	33	63	17	27	2	7	..	2	1	1	2,945	2,334	5,279
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	6	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
5	9	5	2	2	1	5	2	2	2	..	..	..	..	..	..	60	87	147
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	19	20	39
2	1	1	1	2	2	1	..	..	..	..	..	..	..	..	..	109	77	186
2	2	1	2	2	2	..	1	..	..	..	..	..	..	..	..	165	153	318
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
1	5	1	6	..	1	4	2	..	1	..	..	..	1	..	..	80	107	187
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	15	33
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
2	2	2	1	2	2	1	..	1	1	..	..	..	..	..	..	35	28	63
1	1	..	1	3	..	..	..	..	..	..	..	..	..	..	..	30	19	49
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	4	9
1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	11	14	25
..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	5	10	15
8	2	7	3	1	1	..	..	2	1	..	..	..	..	..	..	160	105	265
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	10	7	17

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*										
	Tumor of liver	..	1	..	..	..	..	..	..	..	..
	Congestion of liver	2	..	1	2	..	..	..	..	..	..
	Atrophy of liver	..	..	1	..	..	..	..	..	..	..
	Hepatitis	14	13	23	35	..	1	3	2	..	..
	Jaundice	12	13	..	1	..	..	12	12	..	..
	Perforation of vermiform appendix	5	2	..	4	..	..	..	..	..	..
	Leucocythæmia	3	1	3	2	..	..	..	..	..	..
	Fistula in ano	1	..	1	2	..	..	..	..	..	..
	Fistula, intestinal	..	..	..	1	..	..	..	..	..	..
	Stricture of œsophagus	..	..	2	..	..	..	..	..	..	..
	Stricture of rectum	2	3	..	..	..	..	..	..	..	..
	Stricture of pylorus	..	..	1	..	..	..	..	..	..	..
	Gall stones	2	5	6	6	..	..	..	..	..	..
	Gall bladder	..	..	..	2	..	..	..	..	..	..
	Impacted fæces	4	4	2	3	1	..	1	2	2	1
	Other diseases of digestive system	15	2	9	6	..	..	6	..	..	..
	Total digestive diseases	475	410	357	356	16	10	278	224	32	28
5	*Urinary.*										
	Nephritis	139	105	212	203	12	7	5	4	4	4
	Nephria (Bright's disease)	230	176	431	358	10	10	2	..	4	4
	Uræmia	6	4	4	2	..	..	1	2	..	..
	Diabetes	13	13	21	21	..	..	..	..	..	..
	Calculus	7	2	2	1	..	..	..	..	..	..
	Cystitis	11	6	28	3	1	..	1	..	..	..
	Prostatitis	..	..	2	..	..	..	..	..	..	..
	Pyelitis	..	1	3	..	..	..	..	..	..	..
	Hæmaturia	1	..	..	..	..	..	..	..	..	..
	Hypertrophy of prostate	6	..	13	..	..	..	..	..	..	..
	Suppression of urine	5	2	..	1	..	..	3	1	..	..
	Stricture of urethra	9	..	15	..	..	..	..	..	..	..
	Other diseases of urinary system	1	1	4	..	..	..	..	..	..	..
	Total urinary diseases	428	310	735	589	23	17	12	7	8	8

and Color—Year 1883—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	3	2	1	..	1	..	..	1	1	1	3	2	2	3
..	..	..	..	..	..	12	12	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	1	1	1	..	..	1	1	..	..	..	..	..
1	..	..	..	..	..	1	..	..	..	1	..	..	..	2	..	..	1	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	1	..	1	..	5	4	..	..	..	..	..	..	..	..	..	..	..	1
3	..	..	..	..	..	9	..	1	..	2	..	2	..	2	..	..	..	1	2
10	9	8	3	4	5	332	269	16	18	21	6	17	15	25	28	31	36	33	43
4	4	4	3	3	1	20	16	8	10	5	2	2	5	13	17	23	22	24	40
..	..	2	2	4	..	12	6	8	8	6	8	5	7	23	21	50	33	47	41
2	..	..	..	..	..	3	2	1	..	..	..	..	..	1	1	..	1	1	..
..	..	..	..	..	..	..	..	1	1	1	1	..	..	1	1	3	..	3	3
..	..	1	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	1	..	1	..	..	1	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	3	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	3	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	1	..	1	..
6	4	7	5	7	1	40	25	18	19	12	12	8	13	41	41	79	56	80	84

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*												
	Tumor of liver	..	..	..	..	..	..	..	..	..	..	..	..
	Congestion of liver	1	..	..	2	1	..	..	..	..	..	..	..
	Atrophy of liver	..	..	..	..	..	..	..	..	..	..	..	..
	Hepatitis	5	6	3	7	4	4	3	1	3	5	4	4
	Jaundice	..	..	..	..	..	..	..	..	..	..	..	..
	Perforation of vermiform appendix	2	1	..	..	..	..	..	..	..	1	..	1
	Leucocythæmia	..	..	..	1	..	..	..	..	..	1	..	..
	Fistula in ano	..	..	..	1	..	..	..	1	1	..	..	..
	Fistula, intestinal	..	..	..	..	..	..	..	..	..	..	..	..
	Stricture of œsophagus	..	..	..	..	..	..	1	..	..	..	..	..
	Stricture of rectum	..	1	..	1	..	1	1	..	..	..	..	..
	Stricture of pylorus	..	..	..	..	..	..	..	..	1	..	..	..
	Gall stones	..	..	1	..	..	2	3	1	..	1	2	1
	Gall bladder	..	..	..	..	..	2	..	..	..	..	..	..
	Impacted fæces	..	..	..	..	..	..	..	1	..	..	1	..
	Other diseases of digestive system	1	1	..	..	1	..	..	..	1	1	2	2
	Total digestive diseases	47	43	49	51	44	44	56	48	43	44	38	35
5	*Urinary.*												
	Nephritis	29	24	42	20	32	34	30	26	36	20	29	20
	Nephria (Bright s disease)	64	51	68	47	70	68	76	64	55	35	65	44
	Uræmia	..	..	..	1	1	..	1	..	1	..	..	..
	Diabetes	4	7	1	2	2	..	2	4	4	3	6	6
	Calculus	1	..	..	1	..	..	..	..	1	..	1	1
	Cystitis	3	..	2	2	2	..	1	..	1	..	2	..
	Prostatitis	..	..	..	..	..	..	..	..	1	..	..	..
	Pyelitis	..	..	1	1	..	..	..	..	1	..	..	..
	Hæmaturia	..	..	..	..	..	..	..	..	..	..	..	..
	Hypertrophy of prostate	..	..	1	..	..	..	1	..	1	..	1	..
	Suppression of urine	1	1	1	..	..	..	..	1	..	..	..	..
	Stricture of urethra	4	..	3	..	1	..	2	..	2	..	3	..
	Other diseases of urinary system	1	..	..	..	..	..	..	..	..	..	..	..
	Total urinary system	107	83	119	74	108	102	113	95	103	58	107	71

and Color—Year 1883—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	1
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
3	6	..	2	..	1	1	3	..	..	..	..	..	..	..	..	37	48	85
..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	12	14	26
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	6	11
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	3	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
1	1	..	2	..	..	..	1	..	..	..	..	..	..	..	..	8	11	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	6	7	13
1	1	1	1	..	..	..	..	..	..	..	..	..	..	..	..	24	8	32
31	32	20	24	12	11	12	12	5	6	..	..	..	1	..	..	832	766	1,598
13	13	23	24	13	9	8	4	1	1	..	..	..	..	..	1	351	308	659
48	32	32	38	22	18	6	9	2	3	2	1	..	..	..	..	661	534	1,195
1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	6	16
5	3	1	1	..	2	..	..	..	..	..	..	..	..	..	..	34	34	68
1	..	2	1	..	..	..	..	1	..	..	..	..	..	..	..	9	3	12
4	1	11	3	5	..	3	..	2	1	..	..	..	..	..	..	39	9	48
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	3	1	4
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	1
4	..	4	..	5	..	2	..	..	..	..	..	..	..	..	..	19	..	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	3	8
2	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	24	..	24
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	6
78	50	75	67	46	29	20	13	7	5	2	1	..	..	..	1	1,163	899	2,062

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
6	*Generative.*										
	Ovarian tumor	..	17	..	11	..	1	..	..	..	..
	Ovarian cyst	..	14	..	3	..	1	..	..	..	..
	Metritis and metro-peritonitis (not puerperal)	..	2	..	9	..	..	..	..	..	..
	Fibroid cystic tumor of ovary	..	2	..	3	..	..	..	..	..	..
	Fibroid uterine tumor	..	9	..	13	..	2	..	..	..	..
	Ovaritis	..	1	..	1	..	..	..	..	..	..
	Other diseases of generative system	2	5	..	2	..	..	1	..	..	..
	Total generative diseases	2	50	..	42	..	4	1	..	..	..
7	*Locomotory and Osseous.*										
	Arthritis	..	1	9	3	..	..	..	..	..	..
	Osteo-sarcoma of clavicle	..	1	..	..	..	..	..	..	..	..
	Osteo-sarcoma of femur	..	1	..	..	..	..	..	..	..	..
	Osteo-sarcoma of upper maxilla	..	..	1	..	..	..	..	..	..	..
	Osteo-sarcoma of bones of feet	..	1	..	..	..	..	..	..	..	..
	Necrosis	2	2	3	2	..	..	..	1	..	..
	Spinal disease	15	7	3	3	1	..	1	..	..	..
	Hip disease	14	7	7	2	..	..	..	..	1	..
	Caries	16	16	9	3	..	..	1	..	2	1
	Synovitis	1	..	1	1	1	..	..	..	..	..
	Other diseases of locomotory and osseous system	4	9	2	5	..	2	1	..	1	..
	Total locomotory and osseous system	52	45	35	19	2	2	3	1	4	1
8	*Integumentary.*										
	Abscess	24	17	8	7	1	2	12	6	2	2
	Pemphigus	3	1	..	..	..	..	2	1	..	..
	Eczema	3	9	..	..	..	..	2	7	1	1
	Sclerema	1	..	..	..	..	..	1	..	..	..
	Otorrhœa	2	2	..	..	..	..	..	..	..	..
	Furuncles	1	1	..	..	..	..	1	1	..	..
	Otitis	13	13	4	2	..	..	4	4	3	3
	Ulcer	..	3	6	8	..	..	..	..	..	..
	Gangrene	3	2	3	5	1	1	..	..	1	..

and Color—Year 1883—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	1	1	2
..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	5	..	8	1	15
..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	1	..	..	..	1	1	1	..	..	..	..	..	..	..	..	..	..	..
..	..	2	..	..	..	3	..	7	4	1	2	1	1	1	..	..	..	1	..
..	1	2	..	1	1	4	2	4	3	3	1	3	1	3	1	..	..	1	..
2	1	..	1	..	1	5	4	3	3	1	2	2	3	4	3	2	1	1	..
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	3	..	..	..	..	..	..	..	1	6	..	3	..	2
3	2	5	1	1	3	16	8	16	11	5	5	6	6	9	10	2	5	4	2
..	2	1	..	..	..	15	10	1	1	2	..	2	..	1	1	..	3	2	1
..	..	..	..	..	..	2	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	3	8	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	1	1	..	..	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	1	1	..	1	2	9	10	..	1	1	..	2	..	1	..	3	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	1	..	2	..	..	..	..	..	..	1	..	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
6	*Generative.*												
	Ovarian tumor	..	4	..	3	..	4	..	1	..	4	..	3
	Ovarian cyst	..	3	..	2	..	3	..	..	..	..	..	1
	Metritis and metro-peritonitis (not puerperal)	..	3	..	2	..	1	..	..	..	1	..	..
	Fibroid cystic tumor of ovary	..	3	..	..	..	..	..	1	..	..	..	..
	Fibroid uterine tumor	..	7	..	1	..	4	..	2	..	1	..	..
	Ovaritis	..	..	..	..	..	..	..	..	..	..	..	..
	Other diseases of generative system	..	1	..	2	..	..	..	..	..	..	..	..
	Total generative diseases	..	21	..	10	..	12	..	4	..	5	..	3
7	*Locomotory and Osseous.*												
	Arthritis	2	..	..	..	1	..	..	..	1	..	2	..
	Osteo-sarcoma of clavicle	..	..	..	..	..	..	..	..	..	..	..	..
	Osteo-sarcoma of femur	..	..	..	..	..	..	..	..	..	..	..	..
	Osteo-sarcoma of upper maxilla	..	..	..	..	..	..	..	..	..	..	1	..
	Osteo-sarcoma of bones of feet	..	..	..	..	..	..	..	..	..	..	..	..
	Necrosis	..	..	..	..	..	..	..	..	1	1	..	..
	Spinal disease	1	..	..	..	..	1	1	..	2	..	..	1
	Hip disease	1	..	1	..	1	..	..	..	..	..	..	..
	Caries	2	2	1	..	1	..	..	..	2	..	..	1
	Synovitis	..	..	..	..	1	..	..	..	..	..	..	..
	Other diseases of locomotory and osseous system	..	1	1	1	..	..	1	1	..	..	..	..
	Total locomotory and osseous system	6	3	3	1	4	1	2	1	6	1	3	2
8	*Integumentary.*												
	Abscess	..	1	1	1	1	1	1	1	1	1	3	..
	Pemphigus	..	..	..	..	..	..	..	..	..	..	..	..
	Eczema	..	..	..	..	..	..	..	1	..	..	..	..
	Sclerema	..	..	..	..	..	..	..	..	..	..	..	..
	Otorrhœa	..	..	..	..	..	..	..	..	..	..	..	..
	Furuncles	..	..	..	..	..	..	..	..	..	..	..	..
	Otitis	1	..	..	2	..	..	..	1	..	..	..	..
	Ulcer	1	1	..	..	..	..	..	..	1	..	1	..
	Gangrene	1	..	1	..	..	1	..	2	..	2	1	1

and Color—Year 1883—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	2	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	28	28
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	17	17
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5
..	2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	22	22
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	7	9
..	4	..	2	..	2	..	..	..	..	..	..	..	..	..	..	2	92	94
..	2	1	..	1	..	..	..	..	1	..	..	..	..	..	..	9	4	13
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
1	1	1	..	..	1	..	..	..	..	..	..	..	..	..	..	5	4	9
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	18	10	28
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	21	9	30
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	25	19	44
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	14	20
1	4	3	2	1	1	..	..	..	1	..	..	..	..	..	..	87	64	151
1	1	1	1	..	1	..	..	..	..	..	..	..	..	..	..	32	24	56
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	9	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	17	15	32
1	3	..	3	1	1	1	1	..	1	..	..	..	..	..	..	6	11	17
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	7	13

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
8	*Integumentary.*										
	Tumor	2	..	..	3	..	..	1	..	..	..
	Other diseases of integumentary system	4	4	6	2	..	..	2	1	..	..
	Total integumentary diseases	56	52	27	27	2	3	25	20	7	6
	Total local class	4,080	3,488	3,544	2,837	182	147	1,585	1,258	526	432
1	*Children.*										
	Premature birth	372	255	..	..	7	5	372	255	..	..
	Preternatural birth	81	45	..	..	..	..	81	45	..	..
	Cyanosis	67	53	..	1	..	..	67	54	..	..
	Atelectasis pulmonum	66	60	..	1	1	1	66	61	..	..
	Spina bifida	15	13	..	..	..	..	14	13	..	..
	Imperforate anus	8	3	..	..	..	..	8	3	..	..
	Other malformations	21	16	..	..	..	..	21	16	..	..
	Hæmorrhage of umbilicus	14	9	..	..	..	2	14	9	..	..
	Cleft palate	..	3	..	..	..	..	..	3	..	..
	Total developmental diseases of children	644	457	..	2	8	8	643	459	..	..
2	*Women.*										
	Childbirth	..	18	..	26	..	1	..	..	..	..
	Flooding	..	4	..	20	..	..	..	..	..	..
	Puerperal metritis and metro-peritonitis	..	42	..	101	..	4	..	..	..	..
	Puerperal septicæmia	..	35	..	29	..	..	..	..	..	..
	Puerperal pyæmia	..	2	..	3	..	..	..	..	..	..
	Puerperal nephritis	..	..	..	2	..	..	..	..	..	..
	Puerperal convulsions	..	10	..	10	..	..	..	..	..	..
	Puerperal mania	..	4	..	2	..	..	..	..	..	..
	Puerperal phlebitis	..	1	..	..	..	..	..	..	..	..
	Puerperal uræmia	..	4	..	2	..	..	..	..	..	..
	Puerperal pelvic cellulitis	..	..	..	3	..	..	..	..	..	..
	Miscarriage and abortion	..	14	..	14	..	1	..	..	..	..
	Phlegmasia dolens	..	1	..	2	..	..	..	..	..	..
	Placenta prævia	..	2	..	10	..	..	..	..	..	..
	Other developmental diseases of women	..	9	..	5	..	..	..	..	..	..
	Total developmental diseases of women	..	146	..	229	..	6	..	..	..	..

and Color—Year 1883—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	2	1	..	..	..	..	..	..	..	..	3	1	1	1
..	3	2	..	1	2	35	31	3	2	3	1	5	..	2	5	7	4	3	2
193	166	116	83	70	59	2,490	2,004	186	195	103	95	127	113	221	214	303	244	357	289
..	..	..	..	..	..	372	255	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	81	45	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	67	54	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	66	61	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	15	13	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	8	3	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	21	16	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	14	9	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	644	459	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	14	..	9	..	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	6	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	11	..	43	..	31	..	25
..	..	..	..	..	..	..	..	..	..	..	..	..	8	..	13	..	17	..	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	7	..	6	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	1	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	4	..	5	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	6	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	23	..	95	..	88	..	75

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
8	*Integumentary.*												
	Tumor	1	..	..	..	..	..	..	..	..	..	..	..
	Other diseases of integumentary system	1	1	..	..	..	..	..	..	..	1	..	..
	Total integumentary diseases	5	3	2	3	1	2	1	5	2	4	5	1
	Total local class	458	318	512	329	508	372	486	361	434	332	431	380
1	*Children.*												
	Premature birth	..	..	..	..	..	..	..	..	..	..	..	..
	Preternatural birth	..	..	..	..	..	..	..	..	..	..	..	..
	Cyanosis	..	..	..	..	..	..	..	..	..	..	..	..
	Atelectasis pulmonum	..	..	..	..	..	..	..	..	..	..	..	..
	Spina bifida	..	..	..	..	..	..	..	..	..	..	..	..
	Imperforate anus	..	..	..	..	..	..	..	..	..	..	..	..
	Other malformations	..	..	..	..	..	..	..	..	..	..	..	..
	Hæmorrhage of umbilicus	..	..	..	..	..	..	..	..	..	..	..	..
	Cleft palate	..	..	..	..	..	..	..	..	..	..	..	..
	Total developmental diseases of children	..	..	..	..	..	..	..	..	..	..	..	..
2	*Women.*												
	Childbirth	..	5	..	4	..	..	..	..	..	..	..	..
	Flooding	..	7	..	5	..	..	..	1	..	..	..	..
	Puerperal metritis and metro-peritonitis	..	21	..	10	..	2	..	..	..	..	..	..
	Puerperal septicæmia	..	7	..	5	..	..	..	..	..	..	..	..
	Puerperal pyæmia	..	1	..	..	..	..	..	..	..	..	..	..
	Puerperal nephritis	..	..	..	..	..	..	..	..	..	..	..	..
	Puerperal convulsions	..	..	..	3	..	..	..	..	..	..	..	..
	Puerperal mania	..	..	..	1	..	..	..	..	..	..	..	..
	Puerperal phlebitis	..	..	..	..	..	..	..	..	..	..	..	..
	Puerperal uræmia	..	..	..	..	..	..	..	..	..	..	..	..
	Puerperal pelvic cellulitis	..	1	..	..	..	..	..	..	..	..	..	..
	Miscarriage and abortion	..	11	..	2	..	..	..	..	..	..	..	..
	Phlegmasia dolens	..	..	..	1	..	..	..	..	..	..	..	..
	Placenta prævia	..	2	..	3	..	..	..	..	..	..	..	..
	Other developmental diseases of women	..	2	..	..	..	..	..	..	..	..	..	..
	Total developmental diseases of women	..	57	..	34	..	2	..	1	..	..	..	..

and Color—Year 1883– (Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3	5
1	..	1	..	..	..	1	1	..	..	..	..	..	..	..	..	10	6	16
4	6	2	5	1	2	2	2	..	1	..	..	..	..	..	..	83	79	162
357	323	298	332	191	191	116	155	38	52	6	15	1	8	1	3	7,624	6,325	13,949
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	372	255	627
..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	81	45	126
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	67	54	121
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	66	61	127
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	13	28
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	3	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21	16	37
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	9	23
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	644	459	1,103
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	44	44
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	24	24
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	143	143
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	64	64
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	28	28
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	375	375

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Age.*										
	Senile gangrene	4	2	6	4	..	2	..	..	..	..
	Senile debility (old age)	50	58	160	279	4	9	..	..	..	..
	Total diseases of old age	54	60	166	283	4	11	..	..	..	..
4	*Nutrition.*										
	Atrophy	15	12	..	..	..	..	14	11	1	..
	Asthenia (debility)	42	39	..	1	..	..	41	38	1	1
	Total diseases of nutrition	57	51	..	1	..	..	55	49	2	1
	Total developmental class	755	714	166	515	12	25	698	508	2	1
1	*Accident and Negligence.*										
	Fractures and contusions	44	12	82	17	1	1	..	1	..	1
	Wounds by gunshot	5	..	3	..	..	..	..	..	..	..
	Wounds, others	4	2	6	1	..	..	1	..	..	..
	Killed by vehicles in the street	34	11	32	8	..	1	..	..	1	1
	Fall	100	32	200	43	3	1	..	..	5	1
	Burns and scalds	33	34	13	16	1	1	5	4	6	5
	Poison	13	5	12	4	..	1	2	2	..	..
	Suffocation (asphyxia by)	15	29	9	2	1	2	9	8	..	1
	Drowning	60	11	147	15	..	..	2	2	2	2
	Neglect and exposure	1	3	2	1	..	1	1	3	..	..
	Surgical operations	8	12	9	10	1	..	3	2	..	..
	Total accident and negligence	317	151	515	117	7	8	23	22	14	11
2	*Homicide.*										
	By gunshot	10	2	10	1	..	..	..	..	..	..
	By blows	5	1	11	1	..	..	1	..	..	..
	By cut, stab	5	2	8	..	..	..	..	2	..	..
	By other methods	5	..	1	..	..	..	2	..	..	..
	Total homicidal deaths	25	5	30	2	..	..	3	2	..	..

and Color—Year 1883—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	15	12	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	42	39	..	..	..	..	..	..	..	1	..	..	..	..
..	1	..	..	..	..	57	51	..	..	..	..	..	..	..	..	..	..	..	..
1	1	..	..	..	..	701	510	..	..	..	..	..	23	..	95	..	88	..	75
..	..	..	..	1	..	1	2	4	3	8	4	11	..	12	1	13	2	15	3
..	..	..	..	..	..	..	..	..	..	1	..	1	..	2	..	3	..	..	..
..	..	2	..	..	..	3	..	..	..	..	1	2	..	1	..	..	1	..	1
2	1	1	3	..	1	4	6	9	2	11	2	7	..	..	..	6	..	4	1
5	4	5	4	4	3	19	12	11	6	11	5	13	1	20	2	24	..	31	4
4	3	5	5	5	2	25	19	3	4	1	1	1	1	2	6	1	2	1	4
..	1	..	2	2	..	4	5	1	..	..	..	1	..	4	..	3	1	2	..
..	2	..	2	..	..	9	13	..	10	..	6	..	..	1	1	4	..	1	..
.	..	..	..	..	..	4	4	17	1	11	2	12	2	13	..	21	4	12	3
..	..	..	..	..	..	1	3	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	4	2	1	..	1	..	1	1	..	1	..	1	2	3
11	11	14	16	12	6	74	66	46	26	44	21	49	5	55	11	75	11	68	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	2	1	6	1
..	..	..	..	..	..	1	..	2	..	..	..	..	..	1	..	3	1	1	1
..	..	..	..	..	..	..	2	..	..	..	..	..	..	4	..	2	..	2	..
..	..	..	..	1	..	3	..	..	..	1	..	1	..	..	..	..	..	1	..
..	..	..	..	1	..	4	2	2	..	1	..	1	..	10	..	7	2	10	2

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Age.*												
	Senile gangrene	..	..	..	..	..	..	..	..	..	..	..	1
	Senile debility (old age)	..	..	..	..	..	..	6	2	1	6	19	23
	Total diseases of old age	..	..	..	..	..	..	6	2	1	6	19	24
4	*Nutrition.*												
	Atrophy	..	..	..	..	..	..	..	..	..	..	..	..
	Asthenia (debility)	..	..	..	..	..	1	..	..	..	..	..	..
	Total diseases of nutrition	..	..	..	..	..	1	..	..	..	..	..	1
	Total developmental class	..	57	..	34	..	3	6	3	1	6	19	24
1	*Accident and Negligence.*												
	Fractures and contusions	16	3	8	1	12	1	18	..	1	..	3	3
	Wounds by gunshot	..	..	..	..	1	..	..	..	..	..	..	..
	Wounds, others	1	..	1	..	..	..	..	..	1	..	..	..
	Killed by vehicles in the street	4	..	4	..	3	..	4	..	2	..	1	1
	Fall	28	5	30	5	23	7	28	8	22	2	20	4
	Burns and scalds	2	2	3	1	1	1	3	..	1	5	1	1
	Poison	3	1	2	1	3	..	1	..	1	..	..	..
	Suffocation (asphyxia by)	1	..	2	..	1	..	2	..	2	..	..	..
	Drowning	37	5	45	3	16	1	9	1	5	..	3	..
	Neglect and exposure	..	..	..	..	..	..	1	1	1	..	..	..
	Surgical operations	1	2	2	4	..	1	..	3	1	1	2	..
	Total accident and negligence	93	18	97	15	60	11	66	13	37	8	30	11
2	*Homicide.*												
	By gunshot	6	..	1	..	..	1	..	..	..	..	..	..
	By blows	2	..	4	..	1	..	..	..	1	..	..	..
	By cut, stab	2	..	2	..	..	..	1	..	..	..	..	..
	By other methods	..	..	..	..	..	..	..	..	..	..	..	..
	Total homicidal deaths	10	..	7	..	1	1	1	..	1	..	..	1

and Color—Year 1883—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
1	1	7	1	1	1	..	1	1	..	..	1	..	..	..	..	10	6	16
11	28	36	61	37	66	51	73	29	38	10	21	7	8	3	11	210	337	547
12	29	43	62	38	67	51	74	30	38	10	22	7	8	3	11	220	343	563
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	12	27
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	42	40	82
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	57	52	109
12	29	43	62	38	67	51	74	30	38	10	22	7	8	3	11	921	1,229	2,150
3	1	..	..	1	2	..	2	..	1	..	..	..	..	..	..	126	29	155
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	..	8
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	10	3	13
2	..	4	1	1	3	..	1	..	..	..	..	..	1	..	..	66	19	85
8	4	7	1	3	2	1	2	1		..	2	..	1	..	..	300	75	375
..	1	..	1	..	..	..	..	..	..	..	..	1	..	..	..	46	50	96
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	25	9	34
..	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	24	31	55
1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	207	26	233
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	4	7
1	3	1	..	..	..	..	..	..	.	..	..	..	..	..	..	17	22	39
15	9	12	3	6	7	3	6	1	4	..	2	1	2	..	..	832	268	1,100
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	3	23
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	2	18
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	2	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	..	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	55	7	62

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Suicide.*										
	By poisons	4	3	25	12	..	..	..	..	..	..
	By drowning	2	..	9	1	..	..	..	..	..	..
	By hanging	3	..	14	2	..	..	..	..	..	..
	By leap	1	..	6	4	..	..	..	..	..	..
	By gunshot	19	1	36	1	..	..	..	..	..	..
	By cutting	2	..	12	2	..	..	..	..	..	..
	By illuminating gas	1	..	..	1	..	..	..	..	..	..
	Total suicidal deaths	32	4	102	23	..	..	..	..	..	..
4	*Execution.*										
	Name of criminal executed:										
	Michael McGloin, March 9	1	..	..	..	..	..	..	..	..	..
	Pasquale Majorri, March 9	..	..	1	..	..	..	..	..	..	..
	Edward Hovey	1	..	..	..	..	..	..	..	..	..
	Total violent deaths	376	160	648	142	7	8	26	24	14	11
	Total deaths at all ages and from all causes	11,101	9,908	7,073	5,929	359	334	4,700	3,968	1,459	1,201

and Color—Year 1883—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	1	1	..	4	3
..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	1	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	1	1	1	2	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	3	..	5	..	10	1	4	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	5	4	10	3	14	4	13	3
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
11	11	14	16	13	6	78	68	48	26	45	21	56	9	76	14	97	17	91	24
623	598	412	375	270	250	7,464	6,392	618	591	253	242	405	399	781	819	924	855	954	793

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Suicide.*												
	By poisons	3	2	5	..	4	4	4	..	5	1	1	..
	By drowning	1	..	3	..	..	..	1	..	1	..	..	..
	By hanging	2	..	1	..	2	..	3	..	2	..	1	..
	By leap	1	1	1	..	2	..	..	1	..	..	1	..
	By gunshot	6	..	6	..	7	1	8	..	1	..	3	..
	By cutting	2	..	2	1	4	..	2	..	..	..	1	..
	By illuminating gas	..	..	..	1	..	..	..	..	..	..	..	..
	Total suicidal deaths	15	3	18	2	19	5	18	1	9	1	7	..
4	*Execution.*												
	Name of criminal executed :												
	Michael McGloin, March 9	..	..	..	..	..	..	..	..	..	..	..	..
	Pasquale Majorri, March 9	..	..	..	..	..	..	..	..	..	..	..	..
	Edward Hovey	..	..	..	..	..	..	..	..	..	..	..	..
	Total violent deaths	118	21	122	17	80	17	85	14	47	9	37	11
	Total deaths at all ages and from all causes	1,022	831	1,019	689	922	609	887	648	701	547	692	601

and Color—Year 1883—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	29	15	44
..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	11	1	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17	2	19
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	7	4	11
1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	55	2	57
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	2	16
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
2	..	4	1	..	..	..	..	..	..	..	..	..	..	..	..	134	27	161
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
17	9	16	4	6	7	3	6	1	4	..	2	1	2	..	..	1,024	302	1,326
501	507	437	522	292	332	193	277	78	104	18	41	9	22	4	16	18,174	15,837	34,011

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Miasmatic.*										
	Chagres fever	..	..	1	..	..	..	..	..	..	..
	Varicella	7	3	..	1	..	..	5	1	..	1
	Measles	388	326	27	21	3	1	108	105	163	120
	Scarlatina	270	262	44	32	3	2	30	25	67	55
	Diphtheria	493	506	48	43	1	2	52	44	122	117
	Croup	375	327	23	23	3	1	51	25	109	98
	Quinsy (tonsilitis, angina maligna, etc.)	6	7	1	..	..	..	1	..	..	..
	Parotitis	5	1	1	1	..	..	2	1	..	..
	Whooping-cough	220	261	6	3	4	5	131	139	56	68
	Erysipelas	67	55	15	30	1	1	49	39	..	5
	Pyæmia	..	1	..	..	..	..	..	..	..	..
	Carbuncle	5	2	4	3	..	..	..	1	..	..
	Dysentery	81	76	53	62	2	3	34	28	17	15
	Diarrhœa	1,146	1,294	116	157	26	22	1,167	1,064	247	187
	Cholera (Asiatic)	..	..	..	..	..	..	..	..	..	..
	Cholera morbus	7	5	19	19	2	2	..	..	..	..
	Entero-colitis	183	144	2	15	1	3	143	113	29	27
	Cerebro-spinal fever	97	81	19	13	1	1	32	20	14	18
	Typhus fever	6	1	19	1	..	..	..	..	1	..
	Yellow fever	1	..	2	..	..	..	..	..	..	..
	Typhoid fever	89	75	132	93	2	3	1	..	3	..
	Continued fever	7	2	..	..	..	..	1	..	1	1
	Remittent fever	40	40	22	24	2	3	6	4	8	6
	Intermittent fever	51	52	30	24	3	2	11	8	10	9
	Typho-malarial fever	23	22	23	19	..	..	..	..	..	1
	Congestive (malignant intermittent)	2	1	1	..	..	..	..	..	1	..
	Congestive chills	2	6	..	3	..	..	1	1	..	..
	Puerperal fever (other puerperal diseases, see order of women)	..	21	..	29	..	2	..	..	..	..
	Goitre	..	1	..	3	..	..	..	..	..	..
	Total miasmatic diseases	3,871	3,572	608	619	54	53	1,825	1,618	847	728

and Color—Year 1884.

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	1	..	1	7	4	..	..	..	..	..	..	..	..	..	..	..	..
72	63	29	22	18	14	390	324	23	18	..	1	..	1	..	1	..	1	1	1
62	55	44	41	27	29	230	205	54	62	10	10	6	6	5	8	3	2	4	..
99	122	84	66	60	65	416	414	101	116	6	7	5	1	4	4	4	3	1	..
86	102	58	49	37	32	341	306	53	40	3	3	1	..	..	..	..	..	..	1
1	2	2	1	1	1	5	4	..	2	..	..	..	1	..	..	..	..	1	..
2	..	..	..	1	..	5	1	..	..	..	..	..	..	..	..	..	..	1	..
20	31	7	11	3	8	217	257	9	7	..	..	..	..	..	..	..	..	..	..
1	..	1	1	2	..	53	45	..	1	..	1	1	..	..	5	5	5	1	2
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	1	..	1	..	..	..	..	..
1	2	4	7	2	2	58	54	7	3	2	3	1	7	5	6	5	4	4	5
18	20	2	8	6	5	1,440	1,284	3	7	3	3	2	1	5	4	1	6	9	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	2	2	1	..	..	..	3	2	2	2	2	2
6	5	..	1	..	..	178	146	1	2	1	..	1	..	1	1	1	..	..	..
15	5	6	11	5	6	72	60	20	10	4	8	6	4	1	2	5	3	1	1
..	..	..	..	..	..	1	..	..	..	..	..	1	..	1	1	2	..	4	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	3	3	1	4	9	7	7	5	15	13	24	23	46	30	45	24	22	18
1	..	..	..	..	..	3	1	1	..	1	..	1	..	..	..	..	1	..	..
2	5	3	1	3	..	22	16	5	7	3	2	4	2	3	1	4	7	1	5
9	5	1	3	2	2	33	27	6	8	4	1	2	4	4	4	5	3	5	3
2	..	..	..	2	..	4	1	6	2	3	3	2	3	4	4	5	8	3	1
..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..
..	2	..	..	..	..	1	3	..	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	10	..	14	..	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
400	419	244	226	170	169	3,486	3,160	298	293	56	57	58	58	81	83	87	83	60	57

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Miasmatic.*												
	Chagres fever	..	..	..	..	1	..	..	..	..	..	..	..
	Varicella	..	..	..	..	..	..	..	..	..	..	..	..
	Measles	..	..	..	..	1	..	..	..	..	..	..	..
	Scarlatina	2	..	..	..	..	..	..	1	..	..	..	..
	Diphtheria	..	2	..	1	..	1	1	..	1	..	..	..
	Croup	..	..	..	..	..	..	..	..	..	..	..	..
	Quinsy (tonsilitis, angina maligna, etc.)	1	..	..	..	..	..	..	..	..	..	..	..
	Parotitis	..	..	..	..	..	..	..	..	..	..	..	..
	Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..
	Erysipelas	3	5	1	2	1	2	3	3	3	3	2	2
	Pyæmia	..	..	..	..	..	..	..	..	..	..	..	..
	Carbuncle	..	..	..	..	1	..	..	1	3	2	1	..
	Dysentery	4	3	4	5	8	5	7	5	7	6	4	13
	Diarrhœa	5	5	6	6	5	11	15	14	7	8	7	17
	Cholera (Asiatic)	..	..	..	..	..	..	..	..	..	..	..	..
	Cholera morbus	..	2	1	..	2	1	1	..	1	3	2	4
	Entero-colitis	..	..	2	1	..	1	..	..	..	1	..	3
	Cerebro-spinal fever	2	1	1	1	..	1	2	..	..	1	1	1
	Typhus fever	2	1	4	..	7	..	2	..	1	..	..	..
	Yellow fever	2	..	1	..	..	..	..	..	..	..	..	..
	Typhoid fever	12	16	14	8	7	10	8	6	8	2	2	3
	Continued fever	..	..	..	..	..	..	1	..	..	..	..	..
	Remittent fever	4	3	3	2	2	6	2	3	..	3	2	3
	Intermittent fever	3	3	2	4	4	2	5	3	2	4	3	3
	Typho-malarial fever	6	6	3	2	3	1	2	3	..	1	2	3
	Congestive (malignant intermittent)	..	..	..	..	..	..	..	..	..	..	1	..
	Congestive chills	..	..	..	..	..	2	..	..	..	..	..	..
	Puerperal fever (other puerperal diseases, see order of women)	..	6	..	1	..	2	..	..	..	..	..	..
	Goitre	..	3	..	..	..	..	..	..	..	..	..	1
	Total miasmatic diseases	46	56	42	33	42	45	49	39	33	34	27	53

and Color—Year 1884—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	4	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	415	347	762
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	314	294	608
1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	541	549	1,090
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	398	350	748
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	7	14
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	6	2	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	226	264	490
2	..	..	3	6	1	1	2	..	2	..	1	..	..	..	..	82	85	167
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	1	2	..	..	..	..	..	..	..	..	..	..	..	9	5	14
3	5	5	6	7	2	3	2	..	3	..	1	..	..	..	..	134	138	272
13	19	14	20	10	16	11	14	4	3	2	6	..	..	..	1	1,562	1,451	3,013
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	1	2	1	3	2	..	1	1	..	..	..	..	1	..	..	26	24	50
..	..	..	2	..	1	..	1	..	..	..	..	..	..	..	..	185	159	344
..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	116	94	210
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	25	2	27
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
1	..	..	2	1	..	..	1	..	..	..	..	..	..	..	..	221	168	389
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	2	9
5	..	2	..	..	2	..	2	..	..	..	..	..	..	..	..	62	64	126
..	2	1	2	..	2	1	..	..	1	1	..	..	..	..	..	81	76	157
..	1	3	..	..	1	..	..	..	1	..	..	..	..	..	..	46	41	87
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	3	1	4
..	3	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2	9	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	50	50
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4
28	31	30	39	30	27	16	23	5	10	3	8	..	1	..	1	4,479	4,191	8,670

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Enthetic or Inoculated.*										
	Syphilis	60	46	18	10	4	2	40	37	3	4
	Hydrophobia	1	..	..	..	..	..	..	..	..	..
	Total enthetic or inoculated diseases	61	46	18	10	4	2	40	37	3	4
3	*Dietetic.*										
	Inanition (privation, etc.)	103	123	11	5	..	2	111	119	3	3
	Scurvy	..	1	1	..	..	..	..	1	..	..
	Purpura	5	10	3	2	..	..	4	3	1	1
	Alcoholism *a.* Intemperance	38	20	72	29	..	2	..	..	..	..
	Alcoholism *b.* Delirium tremens	7	1	11	1	2	..	..	..	..	..
	Total dietetic diseases	153	155	98	37	2	4	115	123	4	4
4	*Parasitic.*										
	Aphthæ	10	3	..	..	1	..	10	3	..	..
	Worms	..	2	..	..	..	..	..	..	..	..
	Total parasitic diseases	10	5	..	..	1	..	10	3	..	..
	Total zymotic class	4,095	3,778	724	666	61	59	1,990	1,781	854	736
	Diathetic.										
	Gout	..	1	4	1	..	..	..	..	..	..
	Rheumatism	38	42	52	49	2	2	..	1	1	..
	Anæmia	4	7	5	4	1	..	3	2	..	..
	Cancer of stomach	18	14	79	65	..	..	..	..	..	..
	Cancer of breast	..	26	1	60	..	3	..	..	..	..
	Cancer of uterus	..	55	..	111	..	1	..	..	..	..
	Cancer of liver	6	5	37	39	..	..	..	..	..	..
	Cancer of rectum	3	3	9	5	..	..	..	..	..	..
	Cancer, others	32	29	78	56	..	..	1	1	..	..
	Leprosy	..	..	..	1	..	..	..	..	..	..
	Noma (cancrum oris)	2	2	1	..	..	..	..	2	1	..
	Total diathetic diseases	103	184	266	391	3	6	4	6	2	..

and Color—Year 1884—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	..	1	..	..	..	45	41	..	..	..	..	..	1	1	4	6	2	6	2
..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
1	..	1	..	..	..	45	41	..	..	1	..	..	1	1	4	6	2	6	2
..	1	..	..	..	1	114	124	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	5	4	..	1	..	1	..	2	..	..	..	1	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	6	13	6	20	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	4	1	3	..
..	1	..	..	..	1	119	129	..	1	..	1	..	2	9	6	17	8	25	7
..	..	..	..	..	..	10	3	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	1	..	2	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	1	10	5	..	..	..	..	..	..	..	..	..	..	..	..
401	421	245	226	170	171	3,660	3,333	298	294	57	58	58	61	93	93	110	93	91	66
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	1	..	1	..	4	1	7	6	3	5	4	4	3	7	4	5	3	1	7
..	..	..	..	..	..	3	2	..	..	..	1	1	2	1	..	..	2	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	13
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	2	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	1	1	1	2	3	..	1	..	..	1	2	4	..	4	6	4	7
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	2	2	1	..	..	..	..	..	..	..	..	..	..	..
..	1	1	2	1	5	8	14	7	5	5	5	7	8	13	4	12	15	8	33

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Enthetic or Inoculated.*												
	Syphilis	4	4	5	..	5	..	2	1	2	1	..	..
	Hydrophobia	..	..	..	..	..	..	..	..	..	..	..	..
	Total enthetic or inoculated diseases	4	4	5	..	5	..	2	1	2	1	..	..
3	*Dietetic.*												
	Inanition (privation, etc.)	..	..	..	..	..	..	..	1	..	..	..	1
	Scurvy	..	..	..	..	..	..	..	..	..	..	..	..
	Purpura	..	2	1	..	1	..	..	..	..	..	..	1
	Alcoholism *a.* Intemperance	17	8	14	6	13	6	12	6	7	1	4	2
	Alcoholism *b.* Delirium tremens	2	1	3	..	2	..	1	..	1	..	..	..
	Total dietetic diseases	19	11	18	6	16	6	13	7	8	1	4	4
4	*Parasitic.*												
	Aphthæ	..	..	..	..	..	..	..	..	..	..	..	..
	Worms	..	..	..	..	..	..	..	..	..	..	..	..
	Total parasitic diseases	..	..	..	..	..	..	..	..	..	..	..	..
	Total zymotic class	69	71	65	39	63	51	64	47	43	36	31	37
1	*Diathetic.*												
	Gout	..	..	..	..	..	..	..	..	1	..	1	..
	Rheumatism	4	3	7	4	8	9	10	8	7	4	10	5
	Anæmia	..	1	1	..	..	..	2	1	..	..	..	..
	Cancer of stomach	5	5	10	9	15	7	13	11	17	9	14	17
	Cancer of breast	..	7	..	4	..	13	..	9	..	12	..	13
	Cancer of uterus	..	17	..	24	..	35	..	24	..	16	..	11
	Cancer of liver	2	1	4	7	4	5	6	8	7	6	10	7
	Cancer rectum	..	1	..	3	2	..	2	2	3	..	1	..
	Cancer, others	5	3	7	8	9	6	16	9	15	7	18	10
	Leprosy	..	..	..	..	..	..	..	..	..	..	..	..
	Noma (cancrum oris)	..	..	..	..	..	..	..	..	..	..	..	..
	Total diathetic diseases	16	38	29	59	38	75	49	72	50	54	54	63

and Color—Year 1884—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	78	56	134
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	79	56	135
..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	114	198	242
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	12	20
2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	110	49	159
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	2	20
2	1	1	1	..	..	..	..	..	1	..	..	..	..	..	..	251	192	443
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	3	13
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	5	15
32	32	31	40	30	27	16	23	5	11	3	8	..	1	..	1	4,819	4,444	9,263
..	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	4	2	6
9	7	3	10	1	6	1	3	1	1	..	..	..	..	..	..	90	91	181
1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	11	20
9	11	6	4	4	3	..	1	1	..	..	..	..	..	..	..	97	79	176
..	11	1	7	..	2	..	1	..	..	..	2	..	1	..	..	1	86	87
..	13	..	8	..	1	..	..	..	..	..	..	..	..	..	..	..	166	166
5	6	1	2	..	2	1	..	..	..	..	..	..	..	..	..	43	44	87
..	..	2	2	1	..	..	..	..	..	..	..	..	..	..	..	12	8	20
8	6	11	10	3	1	3	3	..	3	..	..	..	..	..	..	110	85	195
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	5
32	57	25	43	9	15	5	8	2	4	..	2	..	1	..	..	369	575	944

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Tubercular.*										
	Scrofula	12	11	3	3	..	..	8	9	..	2
	Lumbar abscess (psoas abscess, etc.)	3	3	2	..	..	..	1	1	..	..
	Tabes mesenterica and marasmus	510	467	9	4	11	12	468	401	37	51
	Phthisis pulmonalis	1,233	1,138	1,602	1,262	69	75	57	56	22	18
	Hydrocephalus and tubercular meningitis	382	296	17	12	9	4	177	138	110	68
	Rachitis	13	12	2	1	1	2	5	4	5	2
	Other tubercular diseases	2	..	1	2	..	..	1	..	..	..
	Total tubercular diseases	2,155	1,927	1,636	1,284	90	93	717	609	174	141
	Total constitutional class	2,258	2,111	1,902	1,675	93	99	721	615	176	142
1	*Nervous.*										
	Meningitis	357	301	87	52	10	5	166	135	74	65
	Encephalitis	7	5	4	5	..	..	2	3	2	1
	Softening of brain	16	23	35	31	1	2	3	1	1	1
	Apoplexy	101	112	214	201	5	11	13	8	1	1
	Insanity	11	14	30	38	..	..	..	..	..	..
	Epilepsy	26	24	18	5	..	1	..	..	..	1
	Convulsions	303	260	7	4	18	7	250	191	38	57
	Laryngismus stridulus	11	7	..	..	..	1	7	7	3	..
	Paralysis	41	24	62	44	2	1	..	2	1	..
	Paraplegia	1	2	3	5	..	..	..	..	..	..
	Hemiplegia	6	14	12	20	1	3	..	1	..	..
	Chorea	..	..	..	2	..	..	..	..	..	..
	Tetanus	1	..	..	1	..	..	..	..	..	..
	Trismus nascentium	36	21	..	..	..	1	36	21	..	..
	Myelitis	9	10	17	16	1	1	..	1	..	..
	Congestion of brain	71	48	7	9	..	1	41	29	15	9
	Embolism of brain	4	8	4	9	..	2	..	1	..	1
	Thrombosis of brain	2	1	1	2	..	..	..	..	..	..
	Abscess of brain	2	1	1	2	..	..	1	..	1	..
	Tumor of brain	3	10	8	5	..	..	..	..	..	..
	Sclerosis of brain	1	..	2	1	..	..	..	..	..	..

and Color—Year 1884—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	..	1	..	..	1	11	12	1	1	..	..	..	..	..	1	1	..	..	.
..	..	..	..	..	..	1	1	1	..	..	..	..	..	1	1	1	..	..	..
8	8	1	5	2	1	516	466	3	4	..	..	..	..	..	..	..	..	..	..
11	11	10	11	3	8	103	104	15	21	21	34	128	154	370	306	404	413	367	313
32	33	33	12	13	17	365	268	12	25	7	6	..	1	5	2	3	2	..	..
3	4	..	1	..	..	13	11	..	1	..	..	..	..	1	1	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	1	..	..	..
56	56	45	29	18	27	1,010	862	32	52	28	40	128	155	377	312	410	415	367	313
56	57	46	31	19	32	1,018	876	39	57	33	45	135	163	390	316	422	430	375	346
28	33	20	19	13	7	301	259	28	28	11	6	9	5	9	4	7	5	9	8
..	..	1	..	1	..	6	4	1	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	4	2	..	1	..	..	..	..	1	1	2	1	1	..
1	..	..	..	1	..	16	9	1	1	..	1	4	1	5	3	9	7	7	4
..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	4	3	5	7	5
..	1	..	..	..	2	..	4	1	4	5	4	5	2	11	2	2	3	3	1
18	9	2	4	1	1	309	262	1	1	..	..	..	..	..	..	..	..	..	1
1	..	..	..	..	..	11	7	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	2	1	..	..	..	..	1	..	1	6	..	13	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	1	..	1	1	..	1	..	..	..	1	..	..	..	1	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	36	21	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	5	3	1	4	3
2	..	2	1	2	1	62	40	4	6	1	1	..	..	..	1	2	1	..	..
..	..	..	..	..	..	..	2	..	..	..	..	.	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	2	..	..	..	..	..	..	1	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	3	1	..	3	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Tubercular.*												
	Scrofula	..	..	..	..	..	..	..	..	..	..	..	..
	Lumbar abscess (psoas abscess, etc.)	..	1	..	..	..	..	..	..	..	..	1	..
	Tabes mesenterica and marasmus	..	..	..	1	..	..	..	..	..	..	..	..
	Phthisis pulmonalis	321	299	307	196	224	149	193	113	131	87	114	79
	Hydrocephalus and tubercular meningitis	2	1	3	..	..	..	1	1	1	..	..	2
	Rachitis	..	..	..	..	1	..	..	..	..	..	..	..
	Other tubercular diseases	..	..	..	..	..	1	1	..	..	..	..	..
	Total tubercular diseases	323	301	310	197	225	150	195	114	132	87	115	81
	Total constitutional class	339	339	339	256	263	225	244	186	182	141	169	144
1	*Nervous.*												
	Meningitis	7	9	12	7	9	7	12	..	11	4	8	5
	Encephalitis	..	..	1	1	2	1	..	1	..	1	..	1
	Softening of brain	1	..	1	2	3	5	7	5	6	2	4	7
	Apoplexy	16	13	21	18	31	20	29	27	42	32	35	42
	Insanity	4	4	6	7	7	4	4	4	3	6	..	5
	Epilepsy	1	1	1	2	1	2	3	1	2	1	2	..
	Convulsions	..	..	..	..	..	..	..	..	..	..	..	..
	Laryngismus stridulus	..	..	..	..	..	..	..	..	..	..	..	..
	Paralysis	18	4	14	8	12	2	8	5	9	3	10	9
	Paraplegia	1	1	..	..	..	..	..	1	..	1	..	2
	Hemiplegia	..	..	1	5	..	3	1	1	2	5	..	2
	Chorea	..	..	..	..	..	..	..	..	..	1	..	..
	Tetanus	..	1	..	..	..	..	..	..	..	..	..	..
	Trismus nascentium	..	..	..	..	..	..	..	..	..	..	..	..
	Myelitis	3	3	1	2	3	..	3	3	1	3	3	3
	Congestion of brain	1	..	2	..	..	2	..	1	1	..	..	1
	Embolism of brain	1	..	..	1	1	2	1	4	2	..	1	3
	Thrombosis of brain	..	1	1	..	..	..	..	..	..	..	1	..
	Abscess of brain	..	..	..	..	..	2	..	..	..	..	..	..
	Tumor of brain	1	1	4	1	1	3	..	4	..	..	1	..
	Sclerosis of brain	..	..	..	..	1	..	..	..	1	..	1	..

and Color—Year 1884—(Continued).

65		70		75		80		85		90		95		100 and Upwards		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	15	14	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	3	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	519	471	990
76	56	37	36	18	15	4	16	1	6	1	1	..	..	..	2	2,835	2,400	5,235
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	399	308	707
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	13	28
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	5
76	56	38	36	18	15	5	16	1	6	1	1	..	..	..	2	3,791	3,211	7,002
108	113	63	79	27	30	10	24	3	10	1	3	..	1	..	2	4,160	3,786	7,946
6	3	3	1	..	..	2	1	..	1	..	..	..	..	..	..	444	353	797
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	11	10	21
6	7	4	10	4	9	6	2	..	..	1	..	..	..	..	..	51	54	105
31	52	22	18	17	29	25	19	3	12	..	5	1	..	..	..	315	313	628
1	1	..	1	2	3	1	2	..	..	..	..	..	..	..	..	41	52	93
2	..	2	1	1	1	2	..	..	..	..	..	..	..	..	..	44	29	73
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	310	264	574
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	7	18
2	6	3	6	2	10	3	3	1	1	..	..	..	..	..	1	103	68	171
2	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	4	7	11
4	1	3	4	4	3	..	5	1	1	..	..	..	..	..	..	18	34	52
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	36	21	57
3	..	2	..	..	1	..	..	..	..	..	..	..	..	..	..	26	26	52
1	2	..	1	3	1	..	..	1	..	..	..	..	..	..	..	78	57	135
1	2	1	1	..	..	..	1	..	..	..	1	..	..	..	..	8	17	25
..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	3	3	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	15	26
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	3	1	4

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Nervous.*										
	Cerebro-spinal sclerosis	2	3	2	4	..	..	..	..	..	..
	Progressive locomotor ataxia	8	..	7	2	..	..	..	..	..	..
	Tabes dorsalis	..	..	1	2	..	..	..	..	..	..
	Direct effect of solar heat	20	10	55	22	..	..	5	5	4	1
	Other nervous diseases	5	6	6	5	..	..	..	..	..	..
	Total nervous diseases	1,044	901	583	487	38	36	524	405	140	137
2	*Circulatory.*										
	Pericarditis	17	16	24	30	1	1	..	..	..	..
	Aneurism of aorta	22	8	33	12	3	1	..	..	..	..
	Hypertrophy of the heart	29	30	45	42	2	3	..	1	..	..
	Valvular disease of the heart	206	212	324	326	11	26	6	3	..	..
	Ossification of valves of heart	..	..	..	1	..	..	..	..	..	..
	Fatty degeneration of the heart	25	26	52	47	..	..	..	..	..	..
	Endocarditis	15	26	25	16	..	1	1	1	..	..
	Disease of the heart	14	23	32	30	..	1	2	2	..	..
	Angina pectoris	8	6	5	7	..	2	..	..	..	..
	Phlebitis	1	..	..	1	..	..	1	..	..	..
	Other circulatory diseases	7	5	4	4	..	1	..	..	..	..
	Total circulatory diseases	344	352	544	516	17	36	10	7	..	..
3	*Respiratory.*										
	Laryngitis	21	26	3	5	..	1	7	8	3	5
	Bronchitis	539	489	184	273	23	20	377	304	99	101
	Pneumonia	1,083	890	684	502	39	30	378	328	216	215
	Pleuritis	19	19	31	21	..	..	3	7	2	1
	Pleuritis, hydrothorax	..	2	1	..	..	..	..	1	..	..
	Pleuritis, empyema	6	5	8	2	2	..	..	1	..	1
	Gangrene of lungs	1	1	4	1	..	..	..	..	..	..
	Congestion of lungs	29	21	16	16	..	1	17	15	2	2
	Hæmorrhage of lungs	5	2	9	3	..	..	1	..	..	..

and Color—Year 1884—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	2	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	1	..	..	1	11	7	..	..	2	..	3	..	5	2	5	..	8	2
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	1	..	3	1
51	43	26	24	19	12	760	621	37	47	20	12	23	12	34	28	44	25	61	33
..	1	..	2	..	1	..	4	1	3	2	..	2	6	5	2	3	3	1	3
..	..	..	..	..	..	..	..	1	1	..	..	..	2	..	1	3	2	5	2
..	..	..	..	..	..	..	1	2	1	1	3	4	9	4	4	4	4	9	4
..	1	1	1	..	1	7	6	10	17	15	27	22	18	40	26	22	26	30	40
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..	4	3	2	1
..	..	..	..	..	2	1	3	2	5	3	4	5	6	2	3	..	3	3	2
..	..	..	..	..	..	2	2	..	2	1	2	1	3	..	1	..	5	4	3
1	..	..	..	..	..	1	..	..	1	..	..	..	..	1	..	2	1	..	2
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	1	..	..	2	..	..	..	..	..	..	..
1	2	1	3	..	4	12	16	16	31	22	36	37	45	53	37	38	47	54	58
2	3	3	4	..	2	15	22	4	1	..	1	..	..	..	1	..	3	2	1
30	23	9	11	2	6	517	445	8	19	2	..	2	1	6	5	11	2	2	2
90	67	40	36	31	21	755	667	45	46	16	20	28	27	54	40	105	49	93	56
2	1	..	..	1	2	8	11	..	..	1	..	..	2	2	3	5	2	1	1
..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..
..	..	..	3	..	..	..	5	..	..	..	..	..	..	4	1	2	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	1	..
2	1	..	..	1	..	22	18	2	..	..	..	..	..	3	..	1	2	2	1
..	..	..	..	..	..	1	..	..	..	..	..	..	..	2	..	4	..	..	1

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Nervous.*												
	Cerebro-spinal sclerosis	..	..	..	..	..	..	..	..	1	3	1	1
	Progressive locomotor ataxia	..	..	2	1	2	1	2	..	2	..	..	..
	Tabes dorsalis	..	..	..	..	1	1	..	..	..	..	..	..
	Direct effect of solar heat	17	3	6	4	12	2	4	2	..	1	1	..
	Other nervous diseases	..	2	..	..	..	1	2	..	1	..	..	..
	Total nervous diseases	71	43	73	59	86	58	76	59	84	63	68	81
2	*Circulatory.*												
	Pericarditis	3	3	5	..	4	..	9	4	..	6	3	5
	Aneurism of aorta	8	2	11	1	10	1	10	2	1	2	4	..
	Hypertrophy of the heart	5	4	5	10	4	3	8	4	6	3	6	6
	Valvular disease of the heart	33	46	52	51	48	39	64	48	54	42	44	47
	Ossification of valves of heart	..	..	..	..	..	..	..	..	..	..	..	..
	Fatty degeneration of the heart	6	2	4	5	6	10	9	13	13	5	16	13
	Endocarditis	3	1	3	2	3	4	5	3	5	1	2	4
	Disease of the heart	3	1	3	4	8	3	1	7	6	6	3	4
	Angina pectoris	..	2	1	..	1	..	2	..	2	2	2	1
	Phlebitis	..	..	..	..	..	..	..	..	..	..	..	..
	Other circulatory diseases	3	2	..	..	2	..	..	..	..	1	2	1
	Total circulatory diseases	64	63	84	73	86	60	108	81	87	68	82	81
3	*Respiratory.*												
	Laryngitis	..	..	1	..	1	1	..	..	..	..	..	1
	Bronchitis	2	14	12	11	20	18	11	25	13	19	20	35
	Pneumonia	99	50	91	54	90	50	76	62	94	64	78	58
	Pleuritis	6	..	5	..	4	1	6	3	4	2	3	3
	Pleuritis, hydrothorax	..	..	..	..	..	..	..	..	..	..	1	..
	Pleuritis, empyema	1	..	1	..	2	..	..	..	..	1	1	..
	Gangrene of lungs	..	..	..	..	2	1	..	..	..	..	..	..
	Congestion of lungs	1	..	..	1	1	1	2	1	2	1	1	1
	Hæmorrhage of lungs	3	..	1	1	1	2	1	..	..	1	..	..

and Color—Year 1884—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	4	7	11
2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	15	2	17
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	2	3
..	1	..	3	..	2	1	3	..	..	..	..	..	..	..	..	75	32	107
1	..	2	1	..	2	..	1	..	1	..	1	..	..	..	..	11	11	22
62	77	44	48	36	62	40	38	6	17	1	7	1	..	..	1	1,627	1,391	3,018
..	1	2	..	..	5	..	1	1	..	..	..	..	..	..	..	41	46	87
..	2	..	2	1	..	1	..	..	..	..	..	..	..	..	..	55	20	75
11	6	3	3	1	4	1	2	..	1	..	..	..	..	..	..	74	72	146
33	36	28	28	18	26	5	12	5	2	..	..	..	..	..	1	530	538	1,068
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	1
5	8	6	8	2	3	2	1	..	..	..	..	..	..	..	..	77	73	150
2	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	40	42	82
7	5	2	3	2	1	3	1	..	..	..	..	..	..	..	..	46	53	99
1	2	..	1	..	..	..	1	..	..	..	..	..	..	..	..	13	13	26
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	1	1	..	1	2	..	1	..	..	..	..	..	..	..	..	11	9	20
59	61	43	45	25	43	12	19	6	3	..	..	..	..	..	1	888	868	1,756
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	24	31	55
18	23	33	37	14	32	18	41	11	19	3	9	..	3	..	2	723	762	1,485
54	45	53	49	20	30	10	16	6	7	..	2	..	..	..	..	1,767	1,392	3,159
2	1	1	2	1	4	1	2	..	3	..	..	..	..	..	..	50	40	90
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	14	7	21
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	2	7
..	2	3	2	3	3	..	3	1	1	1	..	..	..	..	..	45	37	82
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	14	5	19

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Respiratory.*										
	Emphysema and asthma	11	7	35	43	1	1	3	..	..	..
	Œdema glottidis	7	14	1	1	1	..	8	15	..	..
	Other respiratory diseases	1	4	..	1	..	..	..	..	1	1
	Total respiratory diseases	1,722	1,480	976	868	66	53	794	679	323	326
4	*Digestive.*										
	Stomatitis	13	9	..	2	..	..	10	8	2	1
	Pharyngitis	2	1	..	..	..	..	1	..	..	..
	Gastritis	47	49	30	54	1	1	27	24	4	5
	Dyspepsia	23	11	6	5	..	1	20	7	1	1
	Enteritis	95	69	17	24	..	..	68	53	9	11
	Gastro-enteritis	216	208	14	27	1	2	181	176	22	28
	Hæmatemesis	1	2	1	2	..	..	1	2	..	..
	Peritonitis	52	60	38	74	1	3	8	6	3	..
	Ascites	..	1	..	1	..	..	..	..	..	..
	Ulceration of intestines (perforation?)	3	1	2	1	1	..	1	..	..	..
	Intussusception of intestines	15	11	10	6	..	1	9	8	..	..
	Stricture of intestines	1	2	1	..	..	..	..	..	..	..
	Hernia	6	10	30	41	..	..	3	2	..	..
	Ulcer of the stomach	8	15	17	7	..	..	1	1	..	..
	Hæmorrhage of bowels	9	3	..	..	..	..	7	3	1	..
	Colic	4	4	1	..	..	1	4	4	..	..
	Fatty degeneration of liver	5	3	9	9	..	..	..	..	..	..
	Hypertrophy of liver	1	5	6	8	..	..	..	..	..	1
	Cirrhosis of liver	22	26	114	77	2	1	..	4	..	1
	Abscess of liver	1	2	8	2	..	..	..	..	..	..
	Tumor of liver	..	..	..	1	..	..	..	..	..	..
	Atrophy of liver	2	3	2	6	..	..	..	..	..	..
	Hepatitis	13	14	34	27	1	..	1	..	..	..
	Jaundice	21	15	1	2	..	..	20	14	..	..
	Perforation of vermiform appendix	5	2	1	2	..	..	..	..	..	..
	Leucocythæmia	2	4	..	4	..	..	..	..	1	1
	Fistula in ano	..	..	1	..	..	..	..	..	..	..

and Color—Year 1884—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	3	..	2	..	..	..	..	..	..	..	3	1	1	..
..	..	..	..	..	..	8	15	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	1	2	..	..	..	1	..	..	..	..	..	1	..	..
126	95	52	55	35	31	1,330	1,186	61	66	19	22	30	31	71	51	133	60	103	62
1	..	..	..	..	..	13	9	..	..	..	..	..	..	..	1	..	..	..	..
1	..	..	1	..	..	2	1	..	..	..	..	..	..	..	..	..	..	..	..
3	2	2	1	1	..	37	32	2	..	2	2	1	..	1	4	..	2	1	6
..	..	..	..	..	..	21	8	..	..	..	..	..	..	..	..	..	..	..	..
2	1	..	..	3	..	82	64	2	1	3	4	4	1	3	..	4	..	1	2
4	3	1	1	..	1	208	207	3	4	1	..	2	1	1	1	6	..	..	2
..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	2	2	16	8	4	10	7	5	2	10	7	16	9	20	5	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	1	1	..	..	10	9	2	1	3	..	2	..	..	1	..	..	2	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	3	2	1	..	..	..	1	..	..	..	..	1	1	2
..	..	..	..	..	..	1	1	..	..	..	..	..	1	3	2	..	2	2	4
..	..	..	..	..	..	8	3	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	4	4	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..	..	2
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	1
..	..	..	..	..	..	..	5	..	..	..	1	2	..	..	2	..	3	6	10
..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	1
..	..	..	..	..	..	1	..	2	..	..	..	..	..	1	3	1	2	2	7
1	..	..	..	..	..	21	14	..	..	..	..	..	1	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	1	..	2	1	..	1	..	1	1	..
..	..	..	1	..	..	1	2	..	2	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Respiratory.*												
	Emphysema and asthma	3	1	1	2	4	2	2	7	6	9	6	7
	Œdema glottidis	..	..	..	..	..	..	..	..	..	..	..	..
	Other respiratory diseases	..	..	..	..	..	..	..	..	..	..	..	..
	Total respiratory diseases	115	65	112	69	125	76	98	98	119	97	120	105
4	*Digestive.*												
	Stomatitis	..	..	..	..	..	..	..	1	..	..	..	..
	Pharyngitis	..	..	..	..	..	..	..	..	..	..	..	..
	Gastritis	8	7	3	7	1	4	4	4	3	3	3	7
	Dyspepsia	1	..	1	..	..	..	2	2	..	1	1	..
	Enteritis	2	1	1	1	..	2	2	4	2	3	3	4
	Gastro-enteritis	..	1	2	..	..	1	1	7	..	5	1	..
	Hæmatemesis	..	1	..	..	1	..	..	..	..	..	..	..
	Peritonitis	6	8	5	8	3	15	4	4	5	4	6	2
	Ascites	..	..	..	..	..	..	..	..	..	..	..	..
	Ulceration of intestines (perforation?)	..	..	..	..	..	..	..	2	1	..	1	..
	Intussusception of intestines	1	..	1	2	..	1	..	..	..	1	1	..
	Stricture of intestines	2	..	..	..	..	..	..	1	..	..	..	..
	Hernia	1	3	4	6	4	11	3	2	4	5	2	5
	Ulcer of the stomach	2	2	3	..	1	2	3	2	4	1	3	2
	Hæmorrhage of bowels	..	..	..	..	..	..	..	..	..	..	..	..
	Colic	..	..	..	..	1	..	..	..	..	..	..	..
	Fatty degeneration of liver	3	1	3	4	2	..	..	2	2	1	1	..
	Hypertrophy of liver	1	..	2	..	..	2	1	3	1	..	..	3
	Cirrhosis of liver	20	7	10	13	20	9	22	14	21	6	14	19
	Abscess of liver	4	..	1	1	2	..	..	..	..	..	..	..
	Tumor of liver	..	..	..	..	..	..	..	..	..	..	..	1
	Atrophy of liver	..	..	..	1	..	..	..	1	3	2	1	1
	Hepatitis	3	4	5	5	12	1	7	4	6	2	3	5
	Jaundice	..	..	..	..	..	1	..	..	..	..	..	..
	Perforation of vermiform appendix	..	..	..	..	1	1	1	..	..	..	..	..
	Leucocythæmia	..	1	..	..	..	2	..	..	..	..	..	..
	Fistula in ano	..	..	..	..	1	..	..	..	..	..	..	..

and Color—Year 1884—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
6	4	3	5	3	4	2	5	1	1	..	1	..	..	..	1	46	50	96
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	15	23
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	5	6
80	75	96	95	41	73	31	68	20	31	4	12	..	3	..	3	2,698	2,348	5,046
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	11	24
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
6	7	2	7	1	7	1	3	..	1	1	..	..	..	..	..	77	103	180
1	..	1	1	1	3	..	..	..	1	..	..	..	..	..	..	29	16	45
1	1	2	2	..	2	..	1	..	..	..	..	..	..	..	..	112	93	205
4	3	..	1	..	2	..	..	1	..	..	..	..	..	..	..	230	235	465
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	2	4	6
4	4	2	2	3	4	1	4	1	2	..	..	..	..	..	..	90	134	224
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	2	2
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	2	7
1	1	..	..	1	1	..	..	1	..	..	..	..	..	..	..	25	17	42
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
4	5	3	3	1	2	2	4	2	..	..	..	..	..	..	..	36	51	87
2	..	1	3	..	..	..	..	..	..	..	..	..	..	..	..	25	22	47
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	9	3	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	4	9
..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	14	12	26
1	1	1	1	..	..	..	..	..	..	..	..	..	..	..	..	7	13	20
15	8	4	1	1	4	..	..	1	1	..	..	..	..	..	..	136	103	239
1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	4	13
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	4	9	13
1	..	2	4	1	2	..	1	..	..	..	1	..	..	..	..	47	41	88
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	22	17	39
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	4	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	8	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*										
	Stricture of œsophagus	1	1	3	..	..	..	..	..	1	..
	Impacted fæces	1	..	..	1	..	..	..	..	1	..
	Other digestive diseases	30	12	19	21	..	..	9	4	5	1
	Total digestive diseases	599	543	365	404	7	10	371	316	50	47
5	*Urinary.*										
	Nephritis	168	131	240	227	19	17	8	6	1	4
	Nephria (Bright's disease)	217	190	392	364	11	10	3	2	3	2
	Uræmia	9	2	1	3	..	..	5	..	..	..
	Diabetes	15	14	26	13	..	..	..	..	..	..
	Calculus	5	2	6	1	..	1	..	..	..	..
	Cystitis	17	4	28	5	..	..	1	1	..	..
	Prostatitis	..	..	2	2	..	..	..	..	..	..
	Pyelitis	5	..	6	..	..	..	1	..	..	..
	Hypertrophy of prostate	11	..	10	1	2	..	..	..	..	..
	Suppression of urine	2	..	1	..	..	..	1	..	..	..
	Stricture of urethra	3	..	7	..	..	..	..	..	..	..
	Other urinary diseases	7	2	3	1	..	..	3	..	..	..
	Total urinary diseases	459	345	722	617	32	28	22	9	4	6
6	*Generative.*										
	Ovarian tumor	..	20	..	13	..	1	..	..	..	..
	Ovarian dropsy	..	1	..	..	..	1	..	..	..	..
	Ovarian cyst	..	2	..	1	..	..	..	..	..	..
	Metritis and metro-peritonitis (not puerperal)	..	2	..	5	..	1	..	..	..	..
	Fibroid cystic tumor of ovary	..	7	..	18	..	1	..	..	..	..
	Ovaritis	..	1	..	..	..	1	..	..	..	..
	Other generative diseases	2	15	..	13	..	..	2	..	..	..
	Total generative diseases	2	48	..	49	..	5	2	..	..	..
7	*Locomotory and Osseous.*										
	Arthritis	4	1	4	3	..	..	1	..	..	..
	Osteo-myelitis	..	..	..	1	..	..	..	..	..	..
	Necrosis	5	..	3	2	..	..	..	..	..	..

and Color—Year 1884—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	1	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	15	5	1	..	1	..	1	..	1	1	2	3	..	4
15	7	5	5	6	3	447	378	18	19	18	13	17	15	19	36	23	35	23	51
4	1	1	3	7	..	21	14	5	7	9	5	8	13	13	12	15	21	25	27
3	..	4	4	2	4	15	12	9	4	5	8	8	7	15	37	32	43	42	32
..	..	..	..	..	1	5	1	..	..	1	..	..	..	1	1	..	..	..	..
1	..	..	..	..	..	1	..	..	..	..	..	..	2	1	1	1	..	2	1
1	..	..	..	..	..	1	..	..	..	..	..	1	..	1	..	1	..	..	..
..	..	..	..	..	..	1	1	..	..	..	..	1	..	2	..	1	..	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	1	..	..	..	..	..	1	..	1	..	2	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	1	..	..	..	4	..	..	..	..	..	..	..	..	..	..	..	..	1
9	1	6	7	9	5	50	28	15	11	15	13	18	22	34	51	51	64	74	63
..	..	..	..		..	..	..	..	..	..	..	..	..	..	1	..	3	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	2	..	..	..	..	..	..	3	..	3	..	2	..	5
..	..	..	..	..	..	2	..	..	..	..	..	..	3	..	5	..	7	..	12
..	..	1	..	..	..	2	..	..	..	..	1	..	..	..	..	1	..	2	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	1	..	1	..	..	..	..	..	1	..	..	..	1	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*												
	Stricture of œsophagus	..	..	..	..	..	..	2	..	..	..	..	..
	Impacted fæces	..	..	..	..	..	..	..	..	..	..	..	..
	Other digestive diseases	2	1	5	1	1	3	4	2	4	1	7	7
	Total digestive diseases	56	37	46	49	50	55	56	55	56	35	47	56
5	*Urinary.*												
	Nephritis	25	39	50	37	54	26	45	44	36	38	33	22
	Nephria (Bright's disease)	50	45	66	55	62	46	62	55	68	48	67	61
	Uræmia	1	..	..	..	..	1	..	1	1	..	..	..
	Diabetes	2	..	4	3	5	2	10	3	2	3	3	3
	Calculus	1	..	..	..	..	..	..	1	..	..	2	..
	Cystitis	2	..	1	..	1	1	1	..	2	1	2	..
	Prostatitis	..	..	..	..	..	..	..	..	..	1	1	1
	Pyelitis	..	..	..	..	..	..	..	..	1	..	..	..
	Hypertrophy of prostate	..	..	..	..	1	..	..	..	..	..	4	..
	Suppression of urine	..	..	..	..	1	..	..	..	..	..	..	..
	Stricture of urethra	1	..	3	..	..	..	1	..	2	..	1	..
	Other urinary diseases	..	..	..	1	1	..	..	..	..	1	..	..
	Total urinary diseases	82	84	124	96	125	76	119	104	112	92	113	87
6	*Generative.*												
	Ovarian tumor	..	9	..	4	..	2	..	3	..	1	..	4
	Ovarian dropsy	..	..	..	1	..	..	..	..	..	..	..	..
	Ovarian cyst	..	..	..	..	..	..	..	..	..	..	..	1
	Metritis and metro-peritonitis (not puerperal)	..	3	..	2	..	..	..	..	..	..	..	..
	Fibroid cystic tumor of ovary	..	3	..	4	..	6	..	7	..	2	..	..
	Ovaritis	..	..	..	..	..	..	..	..	..	..	..	..
	Other generative diseases	..	3	..	4	..	6	..	..	..	..	..	1
	Total generative diseases	..	18	..	15	..	14	..	10	..	3	..	6
7	*Locomotory and Osseous.*												
	Arthritis	..	..	1	..	..	..	..	1	1	2	..	..
	Osteo-myelitis	..	..	..	..	..	..	..	..	..	..	..	..
	Necrosis	1	..	..	..	2	..	1	1	..	..	..	1

and Color—Year 1884—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	5
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
2	1	..	3	2	1	1	..	..	..	..	..	..	..	..	..	49	33	82
45	33	19	30	11	29	6	15	6	5	1	1	..	..	..	..	964	947	1,911
35	21	23	11	6	12	4	6	..	2	1	1	..	..	..	..	408	358	766
46	41	35	31	18	15	5	9	3	4	..	1	1	..	..	..	609	554	1,163
1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	10	5	15
3	3	5	3	2	3	..	..	..	..	..	..	..	..	..	..	41	27	68
1	1	2	..	..	1	1	..	..	..	..	..	..	..	..	..	11	3	14
3	..	11	1	4	2	7	..	3	1	..	..	2	..	..	..	45	9	54
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	2	2	4
..	..	1	..	2	..	1	..	..	..	..	..	..	..	..	..	11	..	11
2	..	10	..	3	..	1	1	..	..	..	..	..	..	..	..	21	1	22
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	10	..	10
2	..	2	..	1	..	..	..	..	..	..	..	..	..	..	..	10	3	13
93	66	90	47	36	33	20	16	6	7	1	2	3	..	..	..	1,181	962	2,143
..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	32	32
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	7
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	25	25
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2	28	30
..	1	..	3	..	..	..	..	..	..	..	..	..	..	..	..	2	97	99
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	8	4	12
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	2	10

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
7	*Locomotory and Osseous.*										
	Spinal disease	11	11	4	1	1	..	..	..	..	..
	Hip disease	12	11	3	2	..	..	..	..	..	..
	Caries	12	8	1	4	1	..	..	..	..	..
	Synovitis	2	..	6	1	..	..	1	..	1	..
	Other locomotory and osseous diseases	5	3	2	3	..	..	..	1	1	..
	Total locomotory and osseous	51	34	23	17	2	..	2	1	2	..
8	*Integumentary.*										
	Abscess	21	21	9	6	1	..	15	10	3	3
	Pemphigus	..	3	1	..	..	..	..	2	..	1
	Eczema	5	2	..	..	..	..	4	1	1	..
	Otorrhœa	1	..	..	..	..	..	1	..	..	..
	Otitis	15	10	6	1	..	..	4	5	..	..
	Ophthalmia	2	..	..	..	..	..	2	..	..	..
	Elephantiasis	..	..	..	1	..	..	..	..	..	..
	Ulcer	2	2	7	9	..	..	1	1	..	..
	Gangrene of feet	1	..	..	..	..	..	..	..	..	..
	Tumor	..	..	..	1	..	..	..	..	..	..
	Other integumentary diseases	2	3	2	10	..	..	1	..	1	2
	Total integumentary diseases	49	41	25	28	1	..	28	19	5	6
	Total local class	4,270	3,747	3,238	2,986	163	168	1,753	1,436	524	522
1	*Children.*										
	Premature birth	360	321	..	..	9	3	360	321	..	..
	Preternatural birth	58	33	..	..	1	1	58	33	..	..
	Cyanosis	81	73	..	..	2	..	81	67	..	3
	Atelectasis pulmonum	102	62	..	..	..	1	102	61	..	1
	Spina bifida	7	20	..	1	..	2	6	20	..	..
	Imperforate anus	9	6	..	..	..	..	9	6	..	..
	Other malformations	16	9	..	..	1	..	15	9	..	..
	Hæmorrhage of umbilicus	9	12	..	..	..	1	9	12	..	..
	Cleft palate	4	4	..	..	..	..	3	4	1	..
	Total developmental diseases of children	646	540	..	1	13	8	643	533	1	4

and Color—Year 1884—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	2	..	2	1	4	1	4	6	3	1	1	..	1	..	..	1	..	..
..	1	..	..	1	2	1	3	3	7	7	1	1	..	2	1	1	..	..	..
..	2	1	2	1	..	2	4	3	2	1	1	1	..	1	..	1	..	1	1
..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	1	..	2	..
..	..	..	..	..	..	1	1	2	1	3	..	..	1	..	..	..	1	..	2
..	3	5	2	4	3	13	9	13	16	14	4	3	1	5	1	4	2	6	3
..	..	..	..	..	..	18	13	..	1	..	..	1	2	2	3	..	..	..	1
..	..	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	5	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
2	1	2	..	1	..	9	6	..	..	1	2	2	1	1	..	1	..	2	..
..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	1	..	..	..	1	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	2	2	..	..	..	..	..	..	..	..	..	..	..	..
2	2	2	..	1	..	38	27	..	1	1	3	3	3	3	3	1	..	2	1
204	153	97	96	74	58	2,652	2,265	160	191	109	103	131	132	219	212	294	240	323	283
..	..	..	..	..	..	360	321	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	58	33	..	..	..	..	..	..	..	..	..	..	..	..
..	2	..	..	..	..	81	72	..	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	102	62	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	1	6	21	..	..	..	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	9	6	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	16	9	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	9	12	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	4	4	..	..	..	..	..	..	..	..	..	..	..	..
1	2	..	..	..	1	645	540	..	1	..	..	1	..	..	..	..	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
7	*Locomotory and Osseous.*												
	Spinal disease	1	..	1	2	..	..	..	..	..	1	..	..
	Hip disease	..	..	..	..	..	1	..	..	..	..	..	..
	Caries	1	..	..	2	..	..	..	1	1	1	..	..
	Synovitis	..	..	..	..	1	..	1	..	..	..	..	..
	Other locomotory and osseous diseases	..	..	..	..	..	..	1	..	..	..	..	..
	Total locomotory and osseous	3	..	2	4	3	1	3	3	2	4	..	1
8	*Integumentary.*												
	Abscess	1	2	1	..	1	1	1	1	..	..	1	1
	Pemphigus	..	..	..	..	..	..	..	..	..	..	..	..
	Eczema	..	..	..	..	..	..	..	..	..	..	..	..
	Otorrhœa	..	..	..	..	..	..	..	..	..	..	..	..
	Otitis	..	2	..	..	1	..	..	..	..	..	1	..
	Ophthalmia	..	..	..	..	..	..	..	..	..	..	..	..
	Elephantiasis	..	..	..	1	..	..	..	..	..	..	..	..
	Ulcer	2	..	..	..	..	..	1	3	..	..	1	2
	Gangrene of feet	..	..	..	..	..	..	..	..	..	..	..	..
	Tumor	..	..	..	..	..	..	..	..	..	..	..	..
	Other integumentary diseases	..	1	..	1	..	1	..	..	1	1	1	2
	Total integumentary diseases	3	5	1	2	2	2	2	4	1	1	4	5
	Total local class	394	315	442	367	477	342	462	414	461	363	424	422
1	*Children.*												
	Premature birth	..	..	..	..	..	..	..	..	..	..	..	..
	Preternatural birth	..	..	..	..	..	..	..	..	..	..	..	..
	Cyanosis	..	..	..	..	..	..	..	..	..	..	..	..
	Atelectasis pulmonum	..	..	..	..	..	..	..	..	..	..	..	..
	Spina bifida	..	..	..	..	..	..	..	..	..	..	..	..
	Imperforate anus	..	..	..	..	..	..	..	..	..	..	..	..
	Other malformations	..	..	..	..	..	..	..	..	..	..	..	..
	Hæmorrhage of umbilicus	..	..	..	..	..	..	..	..	..	..	..	..
	Cleft palate	..	..	..	..	..	..	..	..	..	..	..	..
	Total developmental diseases of children	..	..	..	..	..	..	..	..	..	..	..	..

and Color—Year 1885—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	12	27
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	13	28
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	12	25
..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	8	1	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	6	13
1	1	..	1	1	..	1	..	..	..	..	..	..	..	..	..	74	51	125
..	1	3	1	1	..	..	..	..	..	..	..	..	..	..	..	30	27	57
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	2	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	21	11	32
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
2	2	..	1	2	..	..	1	..	..	..	..	..	..	..	..	9	11	20
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	1	..	2	..	1	..	1	..	..	..	..	..	..	..	..	4	13	17
5	5	5	4	3	1	..	2	..	..	..	..	..	..	..	..	74	69	143
345	319	297	273	153	241	110	158	44	63	7	22	4	3	..	5	7,508	6,733	14,241
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	360	321	681
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	58	33	91
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	81	73	154
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	102	62	164
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	21	28
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	6	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	9	25
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	12	21
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	646	541	1,189

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F	M.	F.	M.	F.	M.	F.
2	*Women.*										
	Childbirth	..	14	..	29	..	..	..	..	..	..
	Flooding	..	12	..	17	..	1	..	..	..	..
	Puerperal metritis and metro-peritonitis	..	50	..	78	..	1	..	..	..	..
	Puerperal septicæmia	..	22	..	38	..	..	..	..	..	..
	Puerperal pyæmia	..	1	..	1	..	..	..	..	..	..
	Puerperal nephritis	..	6	..	5	..	..	..	..	..	..
	Puerperal convulsions	..	14	..	15	..	1	..	..	..	..
	Puerperal mania	..	6	..	6	..	1	..	..	..	..
	Puerperal uræmia	..	4	..	4	..	..	..	..	..	..
	Puerperal phlebitis	..	1	..	..	..	..	..	..	..	..
	Miscarriage and abortion	..	16	..	18	..	..	..	..	..	..
	Phlegmasia dolens	..	2	..	6	..	..	..	..	..	..
	Placenta prævia	..	7	..	5	..	..	..	..	..	..
	Other developmental diseases of women	..	3	..	8	..	..	..	..	..	..
	Total developmental diseases of women	..	158	..	230	..	4	..	..	..	..
3	*Age.*										
	Senile gangrene	1	5	10	8	..	..	..	..	..	..
	Senile debility (old age)	35	75	141	278	4	10	..	..	..	..
	Total diseases of old age	36	80	151	286	4	10	..	..	..	..
4	*Nutrition.*										
	Atrophy	8	9	..	..	..	..	8	8	..	1
	Asthenia (debility)	62	37	..	..	2	..	62	35	..	..
	Total diseases of nutrition	70	46	..	..	2	..	70	43	..	1
	Total developmental class	752	824	151	517	10	22	713	576	1	5
1	*Accident and Negligence.*										
	Fractures and contusions	47	3	74	12	1	..	..	..	..	..
	Wounds by gunshot	4	..	2	..	..	..	..	..	..	..
	Wounds, various	2	1	1	1	..	1	..	..	..	..

and Color—Year 1884—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	5	..	13	..	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	..	10	..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	7	..	32	..	42	..	20
..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	15	..	17	..	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	9	..	7	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	4	..	5	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	4	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	5	..	4	..	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	4	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	21	..	84	..	113	..	76
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	8	9	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	62	35	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	70	44	..	..	..	..	..	..	..	..	..	..	..	1
1	2	..	..	..	1	715	584	..	1	..	..	1	21	..	84	..	113	..	77
..	..	..	..	2	..	2	..	4	..	6	..	6	2	8	1	16	1	18	1
1	..	..	..	..	..	1	..	1	..	1	..	1	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	1	1	..	..	..

Order	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Women.*												
	Childbirth	..	9	..	3	..	..	..	..	..	..	..	..
	Flooding	..	5	..	2	..	..	..	..	..	..	..	..
	Puerperal metritis and metro-peritonitis	..	15	..	12	..	..	..	..	..	..	..	..
	Puerperal septicæmia	..	5	..	4	..	..	..	..	..	..	..	..
	Puerperal pyæmia	..	1	..	..	..	..	..	..	..	..	..	..
	Puerperal nephritis	..	2	..	2	..	..	..	..	..	..	..	..
	Puerperal convulsions	..	2	..	3	..	..	..	..	..	..	..	..
	Puerperal mania	..	..	..	1	..	..	..	..	..	..	..	..
	Puerperal uræmia	..	..	..	1	..	..	..	..	..	..	..	..
	Puerperal phlebitis	..	..	..	..	..	..	..	..	..	..	..	..
	Miscarriage and abortion	..	12	..	3	..	..	..	..	..	..	..	..
	Phlegmasia dolens	..	3	..	..	..	..	..	..	..	..	..	..
	Placenta prævia	..	4	..	3	..	..	..	..	..	..	..	..
	Other developmental diseases of women	..	2	..	..	..	..	..	..	..	..	..	..
	Total developmental diseases of women	..	60	..	34	..	..	..	..	..	..	..	..
3	*Age.*												
	Senile gangrene	..	..	..	..	1	..	..	1	..	..	3	1
	Senile debility (old age)	..	..	..	..	..	..	..	4	2	7	7	18
	Total diseases of old age	..	..	..	..	1	..	..	5	2	7	10	19
4	*Nutrition.*												
	Atrophy	..	..	..	..	..	..	..	..	..	..	..	..
	Asthenia (debility)	..	1	..	..	..	..	..	..	..	..	..	..
	Total diseases of nutrition	..	1	..	..	..	..	..	..	..	..	..	..
	Total developmental class	..	61	..	34	1	..	..	5	2	7	10	19
1	*Accident and Negligence.*												
	Fractures and contusions	12	2	16	..	9	1	7	..	8	2	5	..
	Wounds by gunshot	..	..	..	..	..	..	1	..	..	..	..	..
	Wounds, various	..	..	..	..	..	1	..	..	..	..	..	..

and Color— Year 1884—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	43	43
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	29	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	128	128
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	60	60
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	29	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	8
..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	34	34
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	388	388
3	3	3	3	..	2	1	1	..	1	..	..	..	1	..	..	11	13	24
14	15	33	61	30	62	47	82	32	54	9	32	2	14	..	4	176	353	529
17	18	36	64	30	64	48	83	32	55	9	32	2	15	..	4	187	366	553
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	9	17
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	62	37	99
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	70	46	116
17	18	36	64	30	64	48	83	32	55	9	32	2	15	..	4	903	1,341	2,244
1	1	..	1	2	1	..	2	1	..	..	..	..	..	..	..	121	15	136
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	..	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	5

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Accident and Negligence.*										
	Wounds by explosion of dynamite cartridge	1	..	..	..	..	..	..	..	..	..
	Killed by vehicles in the street	32	12	33	7	..	..	..	..	1	..
	Fall	124	34	160	55	1	1	4	7	9	2
	Burns and scalds	35	38	11	27	..	1	4	3	10	3
	Poison by laudanum	1	1	..	..	..	..	..	..	..	..
	Poison by lead	1	..	4	..	..	..	..	..	..	..
	Poison by carbolic acid	1	2	..	..	..	..	..	..	..	..
	Poison by hydrate of chloral	3	..	..	..	..	..	..	..	..	..
	Poison by opium	1	..	5	1	..	..	..	..	..	..
	Poison by other means	2	7	5	3	..	..	..	1	1	..
	Suffocation (asphyxia by)	17	16	16	4	..	..	7	8	1	1
	Drowning	54	4	108	7	..	..	.	1	..	1
	Neglect and exposure	3	2	2	..	..	1	2	2	..	..
	Surgical operations	19	19	9	11	..	1	8	..	1	..
	Frost-bite	..	1	4	..	..	..	..	..	..	..
	Self-produced abortion	..	4	..	1	..	..	..	..	..	..
	Effects of fright at fire	..	..	..	1	..	..	..	..	..	..
	Total accident and negligence	347	144	434	130	2	5	25	22	23	7
2	*Homicide.*										
	By gunshot	5	3	5	1	..	1	..	..	..	..
	By blows	7	2	9	1	1	1	..	..	..	..
	By cut, stab	6	1	4	1	..	..	1	..	..	..
	By abortion	..	1	..	3	..	..	..	..	..	..
	By strangulation	2	..	..	..	..	..	2	..	..	..
	By other means	3	..	..	1	..	..	1	..	..	..
	Total homicidal deaths	23	7	18	7	1	2	4	..	..	..
3	*Suicide.*										
	By poisons	4	6	23	14	..	1	..	..	..	..
	By drowning	2	1	6	4	..	..	..	..	..	..
	By hanging	6	2	31	5	..	..	..	..	..	..

and Color—Year 1884—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
4	..	..	2	3	1	8	3	8	7	4	1	2	1	1	1	4	..	7	..
8	..	5	3	11	4	37	16	12	5	13	4	14	2	20	3	20	3	30	3
8	5	5	6	2	5	29	22	2	9	1	6	..	3	5	5	3	1	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	1	..	1	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	1	1	..	2	3	..	..	..	..	..	1	..	..	..	..	1	2
..	1	..	2	..	..	8	12	3	..	..	1	..	3	2	1	2	..	3	1
..	..	..	..	1	..	1	2	16	..	10	..	9	1	11	..	13	..	16	1
..	..	..	..	..	..	2	2	..	..	..	..	..	..	..	..	..	..	1	..
1	..	..	..	..	..	10	..	1	..	1	..	1	2	..	2	1	2	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
23	8	10	15	20	10	101	62	48	21	36	12	34	15	49	15	61	13	80	14
..	..	..	..	..	..	..	.	1	..	..	..	..	..	3	2	1	2	1	..
..	..	..	..	..	..	..	..	1	..	2	..	2	1	2	..	1	..	1	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	3	..	1	..	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	..	..	1
..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	1	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	4	..	3	..	3	..	2	2	8	4	3	2	4	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	5	4	3	1	4
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	3	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2	..	3	1

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Accident and Negligence.*												
	Wounds by explosion of dynamite cartridge	..	..	..	..	..	..	..	..	..	..	..	..
	Killed by vehicles in the street	9	..	5	..	2	1	3	3	3	1	5	1
	Fall	18	3	25	4	18	2	28	7	15	7	13	6
	Burns and scalds	2	5	1	1	1	1	..	3	..	1	2	1
	Poison by laudanum	..	..	..	..	..	..	..	1	..	..	..	..
	Poison by lead	1	..	1	..	1	..	..	..	..	..	1	..
	Poison by carbolic acid	..	..	..	..	1	..	..	..	..	..	..	..
	Poison by hydrate of chloral	..	..	2	..	..	..	..	..	..	..	..	..
	Poison by opium	1	1	..	..	2	..	..	..	2	..	..	..
	Poison by other means	..	..	1	2	2	1	1	1	..	..	..	..
	Suffocation (asphyxia by)	..	..	6	1	1	..	2	1	2	..	..	..
	Drowning	18	1	16	1	20	2	13	3	9	..	7	..
	Neglect and exposure	1	..	1	..	..	..	..	..	..	..	..	..
	Surgical operations	2	8	1	3	1	4	2	3	4	1	1	1
	Frost-bite	..	..	1	..	1	..	..	..	1	..	..	..
	Self-produced abortion	..	..	..	..	..	..	..	..	..	..	..	..
	Effects of fright at fire	..	..	..	..	..	..	..	..	..	..	..	..
	Total accident and negligence	64	20	76	12	59	13	57	22	44	12	34	10
2	*Homicide.*												
	By gunshot	..	..	1	..	..	..	3	..	..	..	..	..
	By blows	2	1	1	1	1	..	2	..	..	..	1	..
	By cut, stab	2	1	1	..	..	..	..	..	..	..	..	..
	By abortion	..	..	..	..	..	..	..	..	..	..	..	..
	By strangulation	..	..	..	..	..	..	..	..	..	..	..	..
	By other means	..	1	..	..	..	..	..	..	..	..	..	..
	Total homicidal deaths	4	3	3	1	1	..	5	..	..	..	1	..
3	*Suicide.*												
	By poisons	6	2	1	..	4	1	4	3	1	..	2	..
	By drowning	..	2	1	..	2	..	..	..	..	..	1	1
	By hanging	3	..	6	1	7	1	3	..	6	3	2	..

and Color—Year 1884—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
2	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	65	19	84
7	6	7	5	2	7	2	1	3	3	..	1	..	..	..	1	284	89	373
..	..	..	3	..	1	..	..	..	..	..	..	..	..	..	..	46	65	111
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	1	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	10	17
2	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	33	20	53
..	..	2	..	1	..	..	..	..	..	..	..	..	..	..	..	162	11	173
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	2	7
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	28	30	58
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
12	7	11	9	7	9	4	3	4	3	..	1	..	..	..	1	781	274	1,055
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	4	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	3	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	2	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	41	14	55
2	1	..	1	1	..	..	..	..	..	..	..	..	..	..	..	27	20	47
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	5	13
1	..	2	..	..	..	1	..	..	..	..	..	..	..	..	..	37	7	44

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Suicide.*										
	By leap	3	..	6	3	..	..	..	..	..	..
	By gunshot	32	2	59	1	..	..	..	..	..	..
	By cutting	6	1	10	1	1	..	..	..	..	..
	By illuminating gas	..	..	1	..	..	..	..	..	..	..
	Total suicidal deaths	53	12	136	28	1	1	..	..	..	..
5	Sudden death—cause unascertained	..	..	..	1	..	..	..	..	..	..
	Total violent deaths class	423	163	588	166	4	8	29	22	23	7
	Total deaths at all ages and from all causes	11,798	10,623	6,603	6,010	340	356	5,206	4,430	1,578	1,411

and Color—Year 1884—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	1	2	1
..	..	..	..	..	..	..	..	..	..	..	..	3	1	10	..	14	1	16	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	4	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	3	2	14	6	25	7	26	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
23	8	10	15	20	10	105	62	51	21	39	12	39	19	71	25	89	23	110	24
685	641	398	368	283	272	8,150	7,122	548	564	238	218	364	396	773	730	915	899	899	796

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Suicide.*												
	By leap	..	..	..	..	1	..	..	..	..	1	..	..
	By gunshot	11	..	10	..	4	..	8	..	4	..	2	..
	By cutting	2	..	2	..	3	..	2	..	..	..	1	..
	By illuminating gas	1	..	..	..	..	..	..	..	..	..	..	..
	Total suicidal deaths	23	4	20	1	21	2	17	3	11	4	8	1
5	Sudden death—cause unascertained	..	..	..	..	..	.	..	..	..	..	..	..
	Total violent deaths class	91	27	99	14	81	15	79	25	55	15	43	11
	Total deaths at all ages and from all causes	893	813	945	710	885	633	849	677	743	563	677	653

and Color – Year 1884—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
1	..	1	..	..	..	1	..	..	..	..	.	..	..	..	..	9	3	12
5	..	3	..	1	..	..	..	..	..	..	..	..	..	..	..	91	3	94
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	16	2	18
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
10	1	6	1	2	..	3	..	..	..	..	..	..	..	..	..	189	40	229
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
22	8	17	10	9	9	7	3	4	3	..	1	..	..	..	1	1,011	329	1,340
524	490	444	466	249	371	191	291	88	142	20	66	6	20	..	13	18,401	16,633	35,034

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Miasmatic.*										
	Small-pox and varioloid	11	8	5	2	..	..	3	1	..	1
	Varicella	..	2	..	..	..	..	..	1	..	1
	Measles	356	337	19	24	2	1	103	107	145	140
	Scarlatina	275	240	20	24	3	1	29	21	67	52
	Diphtheria	607	632	37	49	2	5	64	52	130	147
	Croup	413	396	21	25	..	2	40	42	126	99
	Quinsy (tonsilitis, angina maligna, etc.)	5	3	3	..	..	..	1	2	3	..
	Parotitis	5	4	1	..	..	..	2	1	1	1
	Whooping-cough	207	277	9	2	2	5	118	127	57	81
	Erysipelas	52	50	23	18	1	2	34	36	2	4
	Pyæmia	3	..	..	..	..	..	1	..	2	..
	Carbuncle	1	..	4	4	..	..	1	..	..	..
	Dysentery	91	76	52	62	..	..	28	32	15	11
	Diarrhœa	1,367	1,197	114	106	29	13	1,099	979	174	162
	Cholera (Asiatic)	..	..	..	..	..	..	..	..	..	..
	Cholera morbus	11	7	21	16	..	..	..	..	..	..
	Entero-colitis	139	153	7	7	2	2	111	132	19	16
	Cerebro-spinal fever	81	83	17	21	..	4	27	32	15	14
	Typhus fever	..	1	9	5	..	..	..	..	..	..
	Typhoid fever	81	45	98	69	..	3	..	..	..	4
	Continued fever	1	5	..	3	..	..	1	..	..	1
	Remittent fever	28	44	20	28	..	..	2	8	3	4
	Intermittent fever	56	52	22	27	2	3	9	5	11	6
	Typho-malarial fever	27	31	22	31	..	1	1	1	1	..
	Congestive (malignant intermittent)	1	2	1	2	..	..	..	..	..	1
	Congestive chills	1	2	1	1	..	..	..	..	..	..
	Puerperal fever (other puerperal diseases, see order of women)	..	21	..	36	..	3	..	..	..	..
	Yellow fever	..	..	1	..	..	..	..	..	..	..
	Total miasmatic diseases	3,820	3,668	527	562	43	45	1,674	1,579	771	745
2	*Enthetic or Inoculated.*										
	Syphilis	55	46	16	6	3	2	38	35	..	1
	Malignant pustule	..	..	1	..	..	..	..	..	..	..
	Total enthetic or inoculated diseases	55	46	17	6	3	2	38	35	..	1

and Color—Year 1885.

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	1	3	1	1	2	8	6	3	1	1	..	..	..	..	1	1	2	1	..
..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..
59	49	29	28	11	9	347	333	25	19	1	5	..	1	..	2	1	..	..	..
58	43	43	45	28	30	225	191	53	58	10	6	1	2	2	4	3	1	..	2
132	132	109	112	67	77	502	520	118	135	14	16	4	1	1	2	3	..	1	2
98	110	81	70	43	50	388	371	44	46	..	3	..	1	1	..	1	..	..	..
..	..	1	..	..	..	5	2	1	..	..	1	..	..	..	..	..	..	1	..
..	1	1	..	..	..	4	3	..	..	1	..	1	..	..	..	..	..	..	..
24	38	8	13	7	11	214	270	2	9	..	..	..	..	..	..	..	..	..	..
..	1	2	1	..	..	38	42	1	..	..	1	2	2	1	..	1	1	4	2
..	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
3	5	5	7	4	2	55	57	18	7	6	2	5	2	7	6	6	9	5	3
31	20	12	6	7	3	1,323	1,170	13	6	5	4	2	2	4	3	8	7	9	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	..	1	..	1	2	2	..	..	..	3	1	1	1	1	1
4	2	2	3	..	..	136	153	3	..	..	..	..	..	..	..	1	..	..	..
15	8	3	4	3	5	63	63	11	15	3	2	3	9	3	1	3	..	5	1
..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	2	3	..	..	2
2	..	2	1	..	..	4	5	9	7	11	3	26	18	34	30	25	7	21	14
..	..	..	1	..	1	1	3	..	..	..	1	..	..	..	..	..	..	..	1
3	9	3	5	1	..	12	26	4	6	1	5	..	4	1	3	5	2	3	4
7	5	4	9	5	4	36	29	7	7	2	3	1	3	5	4	5	5	4	1
1	4	1	..	1	2	5	7	3	4	6	4	2	8	6	3	7	9	3	5
..	1	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17	..	20	..	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
438	429	309	306	180	196	3,372	3,255	317	322	63	57	47	53	70	79	74	64	58	55
2	..	..	..	..	..	40	36	..	..	..	..	..	..	2	2	6	3	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..
2	..	..	..	..	..	40	36	..	..	..	..	..	..	2	2	6	3	3	3

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Miasmatic.*												
	Small-pox and varioloid	1	..	..	..	..	..	..	..	1	..	..	..
	Varicella	..	..	..	..	..	..	..	..	..	..	..	..
	Measles	..	1	..	..	1	..	..	..	..	..	..	..
	Scarlatina	1	..	..	..	..	..	..	..	..	..	..	..
	Diphtheria	..	1	..	1	..	1	..	1	1	..	..	..
	Croup	..	..	..	..	..	..	..	..	..	..	..	..
	Quinsy (tonsilitis, angina maligna, etc.)	..	..	..	..	..	..	..	..	..	..	1	..
	Parotitis	..	..	..	..	..	..	..	..	..	..	..	1
	Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..
	Erysipelas	3	3	5	4	3	3	4	1	2	1	2	4
	Pyæmia	..	..	..	..	..	..	..	..	..	..	..	..
	Carbuncle	..	..	..	1	1	..	2	..	..	..	1	..
	Dysentery	4	7	4	4	4	2	3	6	4	7	7	10
	Diarrhœa	8	3	15	8	4	3	13	7	12	14	14	17
	Cholera (Asiatic)	..	..	..	..	..	..	..	..	..	..	..	..
	Cholera morbus	..	2	1	2	3	2	4	1	5	2	5	1
	Entero-colitis	1	1	..	2	1	..	1	1	1	1	..	..
	Cerebro-spinal fever	2	2	3	2	..	1	..	4	1	..	1	1
	Typhus fever	2	..	..	..	..	..	2	1	..	..	1	..
	Typhoid fever	12	7	9	7	7	5	7	3	5	4	6	3
	Continued fever	..	..	..	2	..	1	..	..	..	..	..	..
	Remittent fever	3	6	4	3	3	1	2	2	2	2	3	4
	Intermittent fever	4	5	3	2	1	2	4	4	1	2	1	2
	Typho-malarial fever	6	4	4	4	3	3	1	.	2	7	1	2
	Congestive (malignant intermittent)	1	..	..	1	..	1	..	..	1	..	..	..
	Congestive chills	..	1	..	..	..	..	..	..	..	..	..	..
	Puerperal fever (other puerperal diseases, see order of women)	..	8	..	1	..	..	..	..	..	..	..	..
	Yellow fever	..	..	..	..	..	..	..	..	..	..	..	..
	Total miasmatic diseases	48	51	48	44	31	25	43	31	38	40	43	45
2	*Enthetic or Inoculated.*												
	Syphilis	6	3	5	2	2	1	..	2	..	..	4	..
	Malignant pustule	..	..	..	..	..	..	1	..	..	..	..	..
	Total enthetic or inoculated diseases	6	3	5	2	2	1	1	2	..	..	4	..

and Color—Year 1885—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	10	26
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	375	361	736
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	295	264	559
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	644	681	1,325
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	431	421	855
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	3	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	4	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	216	279	495
4	..	2	2	..	1	2	1	..	..	..	..	..	..	1	..	75	68	143
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	5	4	9
6	5	3	2	4	6	2	1	..	2	..	..	..	..	..	..	143	138	281
13	9	13	9	11	17	10	12	2	6	..	1	..	..	2	..	1,481	1,303	2,784
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	3	2	..	5	..	..	..	1	..	..	..	..	..	..	32	23	55
..	2	1	..	..	..	..	..	1	..	..	..	..	..	..	..	146	160	306
..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	98	104	202
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	6	15
1	1	1	..	1	..	1	..	..	..	..	..	..	..	..	..	180	114	294
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	8	9
2	2	1	2	1	..	1	..	..	..	..	..	..	..	..	..	48	72	120
..	8	3	2	1	..	..	..	..	..	..	..	..	..	..	..	78	79	157
..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	49	62	111
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	4	6
..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	2	3	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	57	57
..	..	..	..	..	..	..	..		..	..	..	..	..	..	..	1	..	1
28	30	27	21	18	32	16	15	3	9	..	1	..	..	3	..	4,347	4,230	8,577
2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	71	52	123
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	72	52	124

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Dietetic.*										
	Inanition (privation, etc.)	110	85	2	..	3	3	108	83	2	2
	Scurvy	..	..	2	1	..	..	..	..	..	..
	Purpura	9	6	..	2	..	..	5	4	2	1
	Alcoholism *a.* Intemperance	25	8	66	22	..	..	..	..	..	..
	Alcoholism *b.* Delirium tremens	13	1	24	2	..	..	..	..	..	..
	Total dietetic diseases	157	100	94	27	3	3	113	87	4	3
4	*Parasitic.*										
	Aphthæ	6	8	..	..	..	1	6	7	..	1
	Hydatid (abdominal)	..	..	1	..	..	..	..	..	..	..
	Hydatid of uterus	..	1	..	..	..	..	..	..	..	..
	Worms	..	2	..	2	..	..	..	..	..	1
	Trichinosis	..	1	..	..	..	..	..	..	..	..
	Total parasitic diseases	6	12	1	2	..	1	6	7	..	1
	Total zymotic class	4,038	3,826	639	597	49	51	1,831	1,708	775	751
1	*Diathetic.*										
	Gout	2	..	3	2	..	..	..	..	..	..
	Rheumatism	33	39	38	53	..	3	2	1	1	..
	Anæmia	8	12	5	4	..	..	2	6	..	..
	Cancer of stomach	10	14	59	60	1	..	..	..	..	..
	Cancer of breast	..	35	..	64	..	3	..	..	..	..
	Cancer of uterus	..	64	..	107	..	2	..	..	..	..
	Cancer of liver	8	10	30	40	..	..	..	..	..	..
	Cancer of rectum	3	8	6	19	..	..	..	..	..	..
	Cancer, others	28	39	84	65	1	3	..	1	..	1
	Fungus hæmatodes	..	1	..	..	..	1	.	..	..	..
	Lupus exedens	1	..	..	1	1	..	..	..	..	..
	Noma (cancrum oris)	1	4	1	2	..	..	..	..	..	1
	Total diathetic diseases	94	226	226	417	3	12	4	8	1	2

and Color—Year 1885—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	..	1	..	..	..	112	85	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	1	..	9	5	..	1	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	3	2	9	5	9	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	7	..	5	..
2	..	1	..	1	..	121	90	..	1	..	..	1	..	5	2	16	6	14	4
..	..	..	..	..	..	6	8	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	2	..	..	..	3	..	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	2	..	..	6	11	..	1	..	..	..	..	..	1	1	1	..	..
442	429	310	308	181	196	3,539	3,392	317	324	63	57	48	53	77	84	97	74	75	62
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	1	..	4	2	5	5	2	5	7	4	4	5	4	7	9	7
..	..	..	..	..	..	2	6	1	..	..	..	1	2	..	1	2	1	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	9
..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	1	..	3	3	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
1	..	1	..	..	..	2	2	..	2	..	1	1	..	2	1	3	2	3	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	1	1	1	..	1	2	4	..	..	..	2	..	..	..	..	..	..	..	..
2	2	2	1	1	1	10	14	6	8	2	9	9	6	7	8	11	20	19	36

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Dietetic.*												
	Inanition (privation, etc.)	..	..	..	..	..	..	..	..	..	..	..	..
	Scurvy	..	1	1	..	..	..	1	..	..	..	..	..
	Purpura	..	..	..	..	..	..	..	1	..	..	..	..
	Alcoholism *a.* Intemperance	11	5	16	5	14	4	8	..	7	3	10	2
	Alcoholism *b.* Delirium tremens	7	1	5	2	1	..	6	..	3	..	1	..
	Total dietetic diseases	18	7	22	7	15	4	15	1	10	3	11	2
4	*Parasitic.*												
	Aphthæ	..	..	..	..	..	..	..	..	..	..	..	..
	Hydatid (abdominal)	..	..	..	..	..	..	..	..	..	..	..	..
	Hydatid of uterus	..	..	..	..	..	..	..	..	..	..	..	..
	Worms	..	..	..	..	..	..	..	..	..	..	..	..
	Trichinosis	..	..	..	..	..	..	..	..	..	..	..	..
	Total parasitic diseases	..	..	..	..	..	..	..	..	..	..	..	..
	Total zymotic class	72	61	75	53	48	30	59	34	48	43	58	48
1	*Diathetic.*												
	Gout	..	..	1	..	..	..	1	..	1	..	..	..
	Rheumatism	6	5	3	3	5	10	7	7	2	4	6	5
	Anæmia	3	2	..	1	2	1	..	..	..	..	..	..
	Cancer of stomach	4	4	2	8	8	6	14	15	12	14	8	10
	Cancer of breast	..	8	..	19	..	11	..	8	..	15	..	17
	Cancer of uterus	..	25	..	17	..	33	..	25	..	26	..	15
	Cancer of liver	3	4	6	5	3	5	4	7	4	8	7	3
	Cancer of rectum	..	2	..	1	1	3	2	6	2	4	1	4
	Cancer, others	3	9	12	4	15	13	18	13	15	13	10	13
	Fungus hæmatodes	..	1	..	..	..	..	..	..	..	..	..	..
	Lupus exedens	..	..	..	..	1	..	..	..	..	..	..	..
	Noma (cancrum oris)	..	..	..	..	..	..	..	..	..	..	..	..
	Total diathetic diseases	19	60	24	58	35	82	46	81	36	84	32	67

and Color—Year 1885—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	112	85	197
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	8	17
2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	91	30	121
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	37	3	40
2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	251	127	378
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	8	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	14	21
32	30	29	21	18	32	16	15	3	9	..	1	..	..	3	..	4,677	4,423	9,100
..	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	5	2	7
1	7	5	7	1	3	..	5	..	..	..	1	..	..	..	..	71	92	163
1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	13	16	29
8	8	6	2	2	3	..	1	1	1	..	1	..	..	..	..	69	74	143
..	7	..	5	..	2	..	2	..	1	..	..	..	..	..	..	..	99	99
..	11	..	4	..	..	..	1	..	..	..	..	..	..	..	..	..	171	171
3	2	1	6	2	1	1	..	..	1	..	..	..	..	..	..	38	50	88
1	1	..	2	..	..	..	..	..	..	..	..	..	..	..	..	9	27	36
8	5	6	8	11	3	2	4	1	2	..	..	..	..	..	..	112	104	216
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	6	8
22	44	20	34	17	12	3	13	2	5	..	2	..	..	..	..	320	643	963

Order.	Causes of Death.	Nativity.				Colored		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Tubercular.*										
	Scrofula	15	9	..	1	..	..	8	6	3	1
	Lumbar abscess (psoas abscess, etc.)	2	..	..	1	..	..	1	..	..	..
	Tabes mesenterica and marasmus	501	378	4	2	4	8	452	341	41	28
	Phthisis pulmonalis	1,226	1,149	1,576	1,245	75	83	50	41	29	24
	Hydrocephalus and tubercular meningitis	344	281	27	14	10	9	162	125	94	80
	Rachitis	21	10	..	2	..	..	14	8	2	1
	Other tubercular diseases	3	1	1	..	..	..	..	..	..	..
	Total tubercular diseases	2,112	1,828	1,608	1,265	89	100	687	521	169	134
	Total constitutional class	2,206	2,054	1,834	1,682	92	112	691	529	170	136
1	*Nervous.*										
	Meningitis	395	312	85	52	8	6	159	130	90	74
	Encephalitis	5	6	4	1	..	..	3	3	1	2
	Softening of brain	19	17	29	27	..	1	..	..	2	..
	Apoplexy	121	121	247	239	8	10	11	6	3	2
	Insanity	16	17	35	42	..	1	..	..	..	..
	Epilepsy	36	18	18	12	1	1	..	..	..	..
	Convulsions	321	262	7	5	5	1	258	198	51	50
	Laryngismus stridulus	6	7	1	..	..	..	4	5	2	1
	Paralysis	37	39	78	37	2	6	1	1	1	2
	Paraplegia	..	1	4	5	..	..	..	..	..	..
	Hemiplegia	1	10		15	..	1	..	1	..	..
	Chorea	1	3	1	..	..	..	..	..	..	..
	Tetanus	..	..	1	..	..	..	..	..	..	..
	Trismus nascentium	33	21	..	..	..	..	33	21	..	..
	Myelitis	8	12	18	16	2	..	..	3	1	..
	Congestion of brain	77	59	5	2	4	2	50	35	10	11
	Embolism of brain	..	2	5	1	..	..	..	..	..	..
	Thrombosis of brain	3	3	4	4	..	..	1	..	..	..
	Abscess of brain	1	1	1	1	..	..	1	..	..	..
	Tumor of brain	7	5	9	3	..	..	..	..	..	..
	Cerebro-spinal sclerosis	5	3	9	7	1	..	..	..	..	..

and Color—Year 1885—(Continued).

2		3		4		Total Under Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	2	..	1	1	..	14	10	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..
5	6	2	2	2	1	502	378	2	1	..	1	1	..	..	..	..	..	..	..
18	12	10	5	8	3	115	85	16	19	20	44	135	149	306	344	434	419	375	321
32	30	29	22	12	8	329	265	19	21	5	..	4	4	1	1	2	..	..	..
3	1	1	1	..	..	20	11	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..
60	51	42	31	24	12	982	749	38	41	26	45	141	153	307	346	436	419	375	321
62	53	44	32	25	13	992	763	44	49	28	54	150	159	314	354	447	439	394	357
40	37	27	22	19	4	335	267	23	28	10	11	10	6	8	5	7	3	16	5
..	1	1	..	..	..	5	6	..	..	..	..	..	..	..	..	1	..	..	..
1	..	..	..	..	..	3	..	1	..	1	1	..	..	..	..	..	1	2	..
1	1	..	..	..	..	15	9	1	..	..	2	1	2	6	5	2	4	10	14
..	..	..	..	..	..	..	..	..	..	..	..	1	1	3	3	5	2	4	4
1	..	4	1	1	..	6	1	7	1	4	3	2	3	7	5	4	2	5	3
12	10	6	4	..	1	327	263	1	2	..	1	..	..	..	..	..	..	..	..
..	..	1	1	..	..	7	7	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	2	3	1	..	..	..	..	..	..	1	4	2	14	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	33	21	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	1	..	2	4	..	..	..	..	..	..	1	2	2	3	3	2
5	2	4	1	1	1	70	50	4	2	..	1	1	..	..	..	2	2	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	1	1	1	..	..	..	1	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2	2	..	1	1
..	..	..	..	..	..	..	..	..	1	..	..	..	..	3	..	1	..	1	1

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Tubercular.*												
	Scrofula	..	..	..	..	..	..	..	..	..	..	..	..
	Lumbar abscess (psoas abscess, etc.)	..	..	..	1	..	..	..	..	..	..	..	..
	Tabes mesenterica and marasmus	..	..	..	..	..	..	..	..	..	..	..	..
	Phthisis pulmonalis	350	253	285	220	235	158	178	112	136	83	106	82
	Hydrocephalus and tubercular meningitis	2	2	2	..	1	1	3	1	2	..	..	..
	Rachitis	..	..	..	..	..	1	..	..	..	..	..	..
	Other tubercular diseases	..	..	..	..	..	..	2	..	1	..	..	..
	Total tubercular diseases	352	255	287	221	236	160	183	113	139	83	106	82
	Total constitutional class	371	315	311	279	271	242	229	194	175	167	138	149
1	*Nervous.*												
	Meningitis	12	7	10	7	14	4	8	6	12	3	6	4
	Encephalitis	2	..	..	..	..	..	..	1	1	..	..	..
	Softening of brain	2	1	3	2	4	3	2	3	8	5	5	6
	Apoplexy	21	9	27	27	32	27	40	29	45	46	47	44
	Insanity	4	8	4	8	7	6	5	5	3	5	2	5
	Epilepsy	2	..	..	3	6	2	3	2	5	1	..	2
	Convulsions	..	1	..	..	..	..	..	..	..	..	..	..
	Laryngismus stridulus	..	..	..	..	..	..	..	..	..	..	..	..
	Paralysis	9	3	20	5	12	4	6	3	10	4	14	10
	Paraplegia	..	1	..	..	..	..	..	2	1	1	..	..
	Hemiplegia	..	..	..	1	..	1	1	1	2	2	2	7
	Chorea	..	1	..	..	..	..	..	..	1	..	..	..
	Tetanus	1	..	..	..	..	..	..	..	..	..	..	..
	Trismus nascentium	..	..	..	..	..	..	..	..	..	..	..	..
	Myelitis	3	3	2	1	1	3	2	7	6	1	1	1
	Congestion of brain	1	1	..	..	..	1	..	..	1	1	..	..
	Embolism of brain	..	1	1	..	1	..	1	..	1	..	..	..
	Thrombosis of brain	..	..	..	..	..	..	..	2	..	1	1	1
	Abscess of brain	..	..	..	..	..	..	..	..	..	..	..	..
	Tumor of brain	2	..	3	2	4	..	2	1	1	..	1	..
	Cerebro-spinal sclerosis	2	1	..	1	3	1	1	1	1	1	..	1

and Color—Year 1885—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	10	25
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	505	380	885
56	44	27	40	18	11	6	6	3	3	1	1	..	..	..	..	2,802	2,394	5,196
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	371	295	666
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21	12	33
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	5
57	44	27	40	18	11	6	6	3	3	1	1	..	..	..	..	3,720	3,093	6,813
79	88	47	74	35	23	9	19	5	8	1	3	..	..	..	..	4,040	3,736	7,776
1	2	5	1	1	4	1	..	1	..	..	1	..	..	..	..	480	364	844
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	7	16
5	4	4	7	5	6	1	2	2	1	..	2	..	..	..	..	48	44	92
41	27	32	38	24	41	20	26	3	8	1	2	..	..	..	..	368	360	728
7	2	6	2	..	4	..	2	..	1	..	1	..	..	..	..	51	59	110
2	1	1	..	..	1	..	..	..	..	..	..	..	..	..	..	54	30	84
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	328	267	595
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	7	14
6	7	4	12	8	6	..	10	4	3	1	..	..	..	..	..	115	76	191
1	..	2	1	..	..	..	1	..	..	..	..	..	..	..	..	4	6	10
3	1	1	1	..	3	1	4	..	2	..	..	..	..	..	..	10	25	35
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	33	21	54
3	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	26	28	54
1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	82	61	143
..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	5	3	8
2	..	2	1	1	..	..	..	..	1	..	..	..	..	..	..	7	7	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	8	24
1	..	..	1	1	1	..	..	..	..	..	..	..	..	..	..	14	10	24

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Nervous.*										
	Tabes dorsalis	6	2	12	2	..	..	..	..	..	..
	Direct effect of solar heat	26	14	82	24	1	1	10	5	1	1
	Other nervous diseases	4	2	7	10	..	..	..	..	..	..
	Total nervous diseases	1,128	937	671	505	32	30	531	408	162	143
2	*Circulatory.*										
	Pericarditis	27	18	28	23	..	2	1	..	..	..
	Aneurism of aorta	29	5	34	18	3	4	..	..	..	..
	Hypertrophy of the heart	28	48	31	43	2	1	..	2	1	..
	Valvular disease of the heart	250	202	316	313	22	13	4	4	..	1
	Ossification	..	1	1	..	..	..	..	..	..	..
	Fatty degeneration of the heart	22	24	46	46	..	1	..	..	..	..
	Endocarditis	32	25	28	22	1	..	2	1	..	1
	Disease of the heart	40	22	70	50	1	1	1	1	1	..
	Angina pectoris	7	10	14	10	..	..	..	..	..	..
	Phlebitis	..	3	1	1	..	..	..	1	..	..
	Epistaxis	1	1	2	2	..	..	1	..	..	..
	Other circulatory diseases	9	3	6	6	1	..	1	1	..	..
	Total circulatory diseases	445	362	577	534	30	22	11	10	2	2
3	*Respiratory.*										
	Laryngitis	19	19	4	5	..	..	7	7	2	5
	Bronchitis	592	533	209	271	19	22	388	327	129	92
	Pneumonia	1,212	982	831	625	51	34	398	323	252	196
	Pleuritis	21	15	26	20	..	..	5	3	2	3
	Pleuritis, hydrothorax	1	1	..	1	..	..	..	..	..	1
	Pleuritis, empyema	5	3	10	5	..	..	1	1	1	..
	Gangrene of lungs	2	..	1	..	..	..	..	..	..	..
	Congestion of lungs	36	36	17	18	2	1	20	20	3	3
	Hæmorrhage of lungs	8	1	11	5	1	..	..	1	1	..
	Abscess of lungs	2	2	2	1	..	..	..	2	..	..
	Emphysema and asthma	5	5	32	44	..	1	2	1	1	..

and Color—Year 1885—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	13	6	1	2	1	..	..	1	4	1	16	2	15	5
..	..	1	..	..	..	1	..	..	..	..	..	1	..	1	..	..	..	..	..
62	51	44	30	22	7	821	639	39	37	16	21	16	15	34	25	47	21	72	43
..	1	..	..	1	1	3	2	4	5	5	..	..	3	5	2	..	1	5	6
..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	4	2	9	2
..	..	..	..	..	..	1	2	1	4	1	5	5	5	6	7	2	2	5	6
2	1	1	1	2	1	9	8	11	15	28	28	26	24	16	26	46	34	41	28
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	1	..	..	..	1	1	..	4	2	2	4
1	..	2	..	..	..	5	2	6	7	5	3	4	5	3	4	4	1	6	4
..	..	..	2	..	..	2	3	2	1	2	4	2	1	3	4	5	4	8	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	3
..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	1	..	..	..	..
..	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	1	..	..	..
3	2	3	3	3	2	22	19	25	34	41	41	38	40	34	44	66	48	77	54
4	4	..	1	2	..	15	17	1	3	..	..	1	..	..	1	2	..	..	..
34	31	10	11	8	5	569	466	10	8	1	3	2	7	6	9	7	10	11	4
91	92	51	50	28	22	820	683	36	35	15	22	46	38	77	44	102	71	94	66
1	..	..	1	..	..	8	7	..	2	1	..	1	..	3	..	5	1	7	3
..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	2	..	..	2	3	1	..	1	..	1	..	1	..	3	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	4	1	2	..	..	27	29	2	1	..	..	..	1	3	..	..	2	..	..
..	..	1	..	..	..	2	1	..	..	..	..	..	..	3	..	2	1	2	..
..	..	..	..	..	..	..	2	..	..	1	..	..	..	..	..	..	..	3	..
..	1	..	..	..	..	3	2	..	..	..	..	..	..	..	..	..	2	1	1

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Nervous.*												
	Tabes dorsalis	..	..	3	2	3	..	..	1	1	..	6	1
	Direct effect of solar heat	15	1	14	3	10	..	7	3	5	2	4	6
	Other nervous diseases	..	1	..	1	5	1	..	2	..	1	1	1
	Total nervous diseases	76	39	87	63	102	53	78	69	104	74	90	89
2	*Circulatory.*												
	Pericarditis	4	4	5	1	4	2	..	3	6	2	4	2
	Aneurism of aorta	13	3	8	2	10	3	4	1	3	2	8	3
	Hypertrophy of the heart	4	4	4	6	2	9	5	5	5	6	4	10
	Valvular disease of the heart	29	26	63	30	61	50	42	52	37	44	58	55
	Ossification	..	..	..	..	..	..	..	..	..	..	..	..
	Fatty degeneration of the heart	3	2	3	6	6	9	7	9	14	7	9	13
	Endocarditis	4	4	4	4	5	1	3	1	5	4	3	3
	Disease of the heart	5	5	10	9	7	4	11	8	9	6	14	6
	Angina pectoris	..	..	1	1	2	1	2	4	3	..	5	3
	Phlebitis	..	..	..	1	1	..	..	..	..	..	..	..
	Epistaxis	..	..	..	..	..	1	..	1	..	..	..	..
	Other circulatory diseases	..	1	..	..	..	1	1	..	1	2	4	..
	Total circulatory diseases	62	49	98	60	98	81	75	84	83	73	109	95
3	*Respiratory.*												
	Laryngitis	2	..	1	..	..	2	..	..	..	..	..	..
	Bronchitis	7	5	13	9	16	11	15	15	19	21	22	31
	Pneumonia	128	76	130	64	123	66	107	79	90	77	76	93
	Pleuritis	4	3	4	2	2	2	2	..	5	1	1	2
	Pleuritis, hydrothorax	..	..	..	..	..	..	..	..	.	..	..	..
	Pleuritis, empyema	..	2	1	1	1	..	1	..	.	1	1	..
	Gangrene of lungs	1	..	..	..	1	..	..	..	..	..	1	..
	Congestion of lungs	1	..	4	3	1	1	..	2	4	1	4	3
	Hæmorrhage of lungs	5	..	..	..	2	2	..	..	1	..	1	..
	Abscess of lungs	..	..	..	..	..	..	..	1	..	..	..	..
	Emphysema and asthma	2	1	3	1	3	2	5	4	5	5	6	8

and Color—Year 1885—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
3	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	18	4	22
2	2	1	2	..	1	..	..	..	..	..	1	..	..	..	..	108	38	146
1	1	..	1	..	1	..	1	1	1	..	..	..	..	..	..	11	12	23
79	47	60	67	42	69	23	47	11	17	2	7	..	..	..	..	1,799	1,442	3,241
5	2	3	1	1	1	..	2	1	2	..	..	..	..	..	..	55	41	96
1	4	1	..	..	1	..	..	..	..	..	..	..	..	..	..	63	23	86
4	6	5	7	5	2	..	5	..	..	..	..	..	..	..	..	59	91	150
40	35	24	28	25	20	8	8	1	3	..	1	1	..	..	..	566	515	1,081
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	1	2
8	5	4	6	5	3	2	2	..	..	..	..	..	..	..	..	68	70	138
..	..	..	1	1	2	2	..	..	1	..	..	..	..	..	..	60	47	107
12	7	13	4	4	4	1	1	..	..	..	..	..	..	..	..	110	72	182
4	2	2	2	2	1	..	1	..	..	..	..	..	..	..	..	21	20	41
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	4	5
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3	6
1	..	3	2	1	1	2	..	..	1	..	..	..	..	..	..	15	9	24
75	61	56	51	45	35	15	19	2	7	..	1	1	..	..	..	1,022	896	1,918
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	23	24	47
15	38	29	49	21	54	14	33	14	19	8	8	3	3	..	1	801	804	1,605
72	67	51	49	35	41	24	23	16	8	..	4	1	1	..	..	2,043	1,607	3,650
2	..	1	4	1	3	..	4	..	1	..	..	..	..	..	..	47	35	82
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	15	8	23
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
2	2	..	2	3	5	..	2	2	..	..	..	..	..	..	..	53	54	107
..	..	..	1	1	..	..	..	..	1	..	..	..	..	..	..	19	6	25
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	3	7
3	11	3	7	2	3	1	..	..	1	..	..	..	1	..	..	37	49	86

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Respiratory.*										
	Œdema glottidis	6	7	..	1	..	1	6	6	..	..
	Other respiratory diseases	2	..	1	1	..	..	1	..	..	..
	Total respiratory diseases	1,911	1,604	1,144	997	73	59	828	691	391	300
4	*Digestive.*										
	Stomatitis	13	2	2	..	..	..	10	1	1	1
	Pharyngitis	1	1	2	1	..	1	..	1	..	..
	Gastritis	50	58	25	36	..	2	34	26	4	6
	Dyspepsia	21	20	1	2	1	..	15	13	4	3
	Enteritis	110	81	27	23	2	1	71	54	15	14
	Gastro-enteritis	225	203	17	20	1	2	190	170	28	25
	Hæmatemesis	3	1	2	1	..	..	2	1	..	..
	Peritonitis	55	48	39	48	2	3	11	6	1	1
	Ascites	1	..	..	..	..	..	..	..	..	..
	Ulceration of intestines (perforation?)	4	2	4	4	..	..	2	..	..	..
	Intussusception of intestines	15	7	14	8	..	1	8	3	2	1
	Stricture of intestines	..	1	..	..	..	..	..	..	..	..
	Hernia	15	5	32	23	1	..	8	1	..	..
	Ulcer of the stomach	5	8	18	21	..	..	..	..	..	..
	Hæmorrhage of bowels	3	2	2	..	..	..	2	2	..	..
	Colic	5	4	1	1	..	..	4	4	..	..
	Fatty degeneration of liver	3	3	10	6	..	..	1	..	..	..
	Hypertrophy of liver	2	3	7	4	..	..	..	..	1	..
	Cirrhosis of liver	47	15	117	75	2	1	..	..	..	..
	Abscess of liver	2	1	9	3	..	..	1	1	..	..
	Congestion of liver	5	1	3	2	..	..	2	..	1	..
	Atrophy of liver	..	..	1	1	..	..	..	..	..	..
	Hepatitis	9	10	32	31	..	..	..	1	..	..
	Jaundice	16	8	..	..	..	..	15	8	..	..
	Perforation of vermiform appendix	4	1	2	..	..	..	..	..	..	..
	Leucocythæmia	4	4	2	3	..	..	1	..	1	..
	Fistula in ano	..	1	..	..	..	..	..	..	..	..
	Stricture of œsophagus	..	..	3	2	..	..	..	..	..	..

and Color—Year 1885—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	1	..	..	..	..	6	7	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
133	133	63	67	38	27	1,453	1,218	50	49	19	25	51	46	94	54	121	87	119	75
..	..	1	..	..	..	12	2	..	..	..	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..	1	..	..
1	2	..	..	..	1	39	35	1	1	2	2	1	..	1	3	1	6	1	5
1	1	..	1	..	1	20	19	..	..	..	..	..	..	..	..	..	..	..	..
6	2	1	..	1	..	94	70	2	2	4	3	2	2	4	2	7	..	1	..
3	3	1	1	1	1	223	200	..	2	2	1	..	3	..	1	2	1	1	1
..	..	..	..	..	..	2	1	..	..	..	..	..	..	..	..	..	..	..	..
1	..	1	..	1	1	15	8	9	4	8	4	10	6	9	9	6	11	..	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	..	3	..	..	..	..	..	1	1	1	..	..	1	..	..
1	..	..	..	..	..	11	4	..	..	1	1	1	1	..	..	3	..	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
..	..	..	..	..	..	8	1	..	..	..	..	1	..	2	..	3	1	2	
..	..	..	..	1	..	1	..	..	..	1	..	..	4	1	..	1	3	3	
..	..	1	..	..	..	3	2	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	4	4	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	1	3	..
..	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	1	..	1	1	1	5	9	4	10	7
..	..	..	..	..	..	1	1	..	..	1	..	..	..	..	..	2	..	2	..
..	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	2	..	..	..	3	..	..	..	..	1	..	2	1	1	1	4	2
..	..	..	..	..	..	15	8	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	.	..	2	..	..	..	2	..	1	..	..	..	..	..
..	..	..	1	..	..	2	1	..	..	..	1	1	1	..	..	..	3	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Respiratory.*												
	Œdema glottidis	..	..	..	..	..	..	..	..	..	..	..	1
	Other respiratory diseases	..	1	..	..	..	..	1	..	..	..	..	..
	Total respiratory diseases	150	88	156	80	149	86	131	101	124	106	112	138
4	*Digestive.*												
	Stomatitis	..	..	..	..	..	..	1	..	..	..	..	..
	Pharyngitis	..	..	..	..	..	..	..	..	..	..	1	..
	Gastritis	3	2	1	3	3	5	4	7	4	10	1	3
	Dyspepsia	..	1	..	..	..	..	..	..	1	..	..	..
	Enteritis	2	4	..	5	6	1	1	5	2	1	3	2
	Gastro-enteritis	..	2	1	1	..	2	3	1	2	1	1	1
	Hæmatemesis	..	1	..	..	..	..	1	..	..	..	1	..
	Peritonitis	6	12	3	4	6	3	7	4	5	5	2	6
	Ascites	..	..	..	..	..	..	..	..	..	..	1	..
	Ulceration of intestines (perforation ?)	1	..	1	1	..	..	..	1	1	..	..	..
	Intussusception of intestines	2	..	1	..	2	2	1	2	2	1	1	..
	Stricture of intestines	..	1	..	..	..	..	..	..	..	..	..	..
	Hernia	2	..	2	2	4	6	4	2	4	5	8	2
	Ulcer of the stomach	2	3	1	5	4	2	3	3	2	2	2	4
	Hæmorrhage of bowels	..	..	..	..	..	..	..	..	1	..	..	..
	Colic	..	..	..	..	..	..	..	..	..	..	1	..
	Fatty degeneration of liver	..	..	1	2	2	..	1	1	1	1	1	1
	Hypertrophy of liver	1	1	..	1	2	..	2	2	..	1	2	..
	Cirrhosis of liver	14	8	25	10	30	12	24	15	19	10	16	8
	Abscess of liver	3	..	..	1	..	..	..	2	..	..	1	..
	Congestion of liver	..	..	..	..	..	..	1	1	..	1	..	..
	Atrophy of liver	..	..	..	..	..	..	..	..	1	..	..	..
	Hepatitis	7	3	4	5	4	1	5	6	4	8	2	4
	Jaundice	..	..	..	..	..	..	..	..	..	..	..	..
	Perforation of vermiform appendix	..	..	..	..	..	..	..	1	..	..	1	..
	Leucocythæmia	1	..	1	1	..	..	1	..	..	..	..	..
	Fistula in ano	..	..	..	..	..	..	..	..	..	..	..	..
	Stricture of œsophagus	..	..	..	..	2	..	..	..	..	..	1	..

and Color—Year 1885—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	8	14
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	3	1	4
94	118	84	112	65	108	39	62	32	30	8	12	4	5	..	1	3,055	2,601	5,656
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	15	2	17
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	5
3	2	7	5	3	3	..	..	..	1	..	..	..	1	..	..	75	94	169
..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	22	22	44
3	2	5	1	..	2	..	1	1	1	..	..	..	..	..	..	137	104	241
3	..	2	2	..	1	1	..	1	1	..	2	..	..	..	..	242	223	465
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	5	2	7
4	4	2	3	..	2	1	1	..	1	..	..	1	..	..	..	94	96	190
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	8	6	14
2	1	..	..	..	1	..	1	..	..	..	..	..	..	..	..	29	15	44
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
5	4	..	2	1	2	..	1	1	..	..	..	..	..	..	..	47	28	75
..	..	1	1	1	1	..	..	..	..	..	..	..	..	..	..	23	29	52
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	2	7
..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	6	5	11
2	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	13	9	22
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	7	16
7	5	6	3	1	..	..	2	..	..	..	..	..	..	..	..	164	90	254
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	11	4	15
..	1	3	..	1	..	..	..	..	..	..	..	..	..	..	..	8	3	11
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
2	2	1	1	1	3	1	..	2	1	..	..	..	..	..	..	41	41	82
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	8	24
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	1	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	7	13
..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	1	1
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	5

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*										
	Stricture of rectum	2	1	1	2	..	..	2	..	..	..
	Gall stones	2	..	2	3	..	..	..	..	..	..
	Gall bladder	1	1	2	..	..	..	..	1	..	..
	Impacted fæces	1	2	1	..	..	..	1	2	..	..
	Other digestive diseases	18	16	11	16	2	..	7	7	1	..
	Total digestive diseases	642	510	389	336	11	11	387	302	59	51
5	*Urinary.*										
	Nephritis	201	148	310	248	14	11	10	11	5	5
	Nephria (Bright's disease)	244	170	414	360	8	14	4	4	1	1
	Uræmia	7	4	1	2	..	..	1	..	1	1
	Diabetes	15	10	20	18	1	..	..	..	..	..
	Calculus	2	2	1	3	..	..	..	..	..	..
	Cystitis	10	6	40	6	..	..	1	..	..	..
	Prostatitis	..	..	4	..	..	..	..	..	..	..
	Pyelitis	1	1	4	..	..	..	..	..	..	..
	Hypertrophy of prostate	10	..	7	..	1	..	..	..	..	..
	Suppression of urine	5	1	2	2	..	..	2	..	..	1
	Stricture of urethra	7	..	8	1	..	..	..	..	..	..
	Other urinary diseases	3	2	2	2	..	..	..	..	..	..
	Total urinary diseases	505	344	813	642	24	25	18	15	7	9
	Generative.										
	Ovarian tumor	..	10	..	10	..	..	..	..	..	..
	Ovarian dropsy	..	..	..	1	..	..	..	..	..	..
	Ovarian cyst	..	4	..	11	..	..	..	..	..	..
	Metritis and metro-peritonitis (not puerperal)	..	3	..	12	..	..	..	..	..	..
	Fibroid uterine tumor	..	10	..	11	..	..	..	..	..	..
	Ovaritis	..	5	..	1	..	..	..	..	..	..
	Other generative diseases	..	14	1	18	..	..	..	..	..	..
	Total generative diseases	..	46	1	64	..	..	..	..	..	..

and Color—Year 1885—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	2	..	..	..	..	..	..	1	..	..	..	..	..
1	1	..	..	..	..	9	8	..	..	..	..	..	2	1	2	..	..	1	..
14	9	5	5	5	4	470	371	17	10	20	12	23	21	25	23	35	35	30	30
5	2	10	4	1	5	31	27	13	6	4	6	8	8	12	17	29	33	36	37
1	..	3	..	2	2	11	7	10	6	4	6	10	19	16	26	34	25	43	44
1	..	..	..	1	..	4	2	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	1	1	..	2	..	2	1	4	2
1	1	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	2	1	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	1	2	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	2	..	..
8	3	13	4	4	8	50	39	23	12	8	13	19	27	31	45	69	63	87	83
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	3	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	2
..	..	..	1	..	..	..	1	..	..	..	..	..	3	..	4	..	5	..	6
..	..	..	1	..	..	..	1	..	..	..	..	..	6	..	6	..	15	..	16

Order.	Causes of Death.	35		40		45		50		55		60	
		M	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*												
	Stricture of rectum	..	..	..	1	..	..	..	..	..	..	1	..
	Gall stones	..	1	..	..	..	..	1	..	..	..	..	..
	Gall bladder	..	..	..	..	..	..	1	..	..	..	1	..
	Impacted fæces	..	..	..	..	..	..	..	..	..	..	..	..
	Other digestive diseases	2	3	2	1	2	..	3	3	4	..	1	1
	Total digestive diseases	46	42	43	43	67	34	64	56	53	46	49	32
5	*Urinary.*												
	Nephritis	42	38	57	42	42	29	49	39	46	26	48	33
	Nephria (Bright's disease)	62	33	58	57	81	53	72	73	68	46	57	46
	Uræmia	1	1	..	1	..	1	1	1	..	..	..	..
	Diabetes	..	2	3	1	4	2	3	3	4	3	3	7
	Calculus	1	..	..	1	..	..	..	1	..	..	1	1
	Cystitis	..	..	3	1	..	1	3	..	10	..	7	2
	Prostatitis	..	..	1	..	..	..	1	..	..	..	..	..
	Pyelitis	1	..	..	..	1	..	..	..	..	..	2	..
	Hypertrophy of prostate	..	..	..	..	..	..	..	..	..	..	2	..
	Suppression of urine	..	..	1	..	1	..	1	..	1	..	..	1
	Stricture of urethra	..	..	3	..	2	..	3	..	2	..	..	..
	Other urinary diseases	..	..	1	..	..	..	..	1	..	1	..	..
	Total urinary diseases	107	74	127	103	131	86	133	128	131	76	120	92
	Generative.												
	Ovarian tumor	..	1	..	1	..	4	..	4	..	1	..	1
	Ovarian dropsy	..	..	..	..	..	..	..	1	..	..	..	..
	Ovarian cyst	..	2	..	3	..	1	..	..	..	2	..	1
	Metritis and metro-peritonitis (not puerperal)	..	3	..	2	..	1	..	..	..	..	..	..
	Fibroid uterine tumor	..	3	..	5	..	5	..	..	..	2	..	2
	Ovaritis	..	1	..	..	..	1	..	..	..	..	..	..
	Other generative diseases	..	3	..	2	..	2	..	3	1	..	..	..
	Total generative diseases	..	13	..	13	..	14	..	8	1	5	..	3

and Color—Year 1885—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	3	3	6
1	..	..	1	1	..	..	..	1	..	..	..	..	..	..	..	4	3	7
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
2	6	1	2	1	2	..	2	..	..	..	..	..	..	..	..	29	32	61
36	30	30	24	11	19	4	9	7	6	..	2	1	1	..	..	1,031	846	1,877
42	26	28	12	17	6	5	8	2	..	..	2	..	..	..	1	511	396	907
52	32	39	26	25	17	7	7	5	3	3	2	1	..	..	..	658	530	1,188
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	8	6	14
3	4	4	..	2	1	..	1	..	..	..	..	..	..	..	..	35	28	63
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	3	5	8
4	1	6	1	6	2	4	1	3	1	..	..	..	..	..	..	50	12	62
1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	4	..	4
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	6
3	..	4	..	6	..	1	..	1	..	..	..	..	..	..	..	17	..	17
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	3	10
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	1	16
..	..	..	..	2	..	..	..	1	..	..	..	..	..	..	..	5	4	9
107	63	83	39	59	27	17	17	12	4	3	4	1	..	..	1	1,318	986	2,304
..	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21	21
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	6
..	2	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	32	33
..	7	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	110	111

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
7	*Locomotory and Osseous.*										
	Arthritis	1	3	6	2	..	..	..	1	..	..
	Osteo-sarcoma	1	..	..	1	..	..	..	..	..	..
	Necrosis	5	8	7	3	..	..	1	..	1	1
	Spinal disease	14	11	2	3	..	..	..	..	..	..
	Hip disease	8	8	4	..	..	..	..	..	..	1
	Caries	12	12	8	6	..	..	..	2	..	..
	Synovitis	3	1	1	1	..	..	1	..	..	..
	Other locomotory and osseous diseases	2	1	1	..	..	..	1	1	..	..
	Total locomotory and osseous	46	44	29	16	..	..	3	4	1	2
8	*Integumentary.*										
	Abscess	15	24	5	10	..	1	7	11	..	2
	Pemphigus	1	..	..	1	..	..	1	..	..	..
	Eczema	8	7	..	1	..	..	6	3	..	1
	Otorrhœa	2	1	2	..	..	..	1	1	1	..
	Furuncles	..	..	..	1	..	..	..	..	..	..
	Otitis	16	7	5	4	..	..	7	1	2	1
	Ophthalmia	1	1	..	..	..	..	1	1	..	..
	Ulcer	4	5	4	..	..	1	..	1	..	2
	Gangrene	1	..	..	1	..	..	1	..	..	..
	Tumor	1	1	1	..	..	..	..	..	..	..
	Elephantiasis	..	1	..	..	..	..	..	..	..	..
	Exophthalmic goitre	..	1	..	..	..	..	..	..	..	..
	Psoriasis	..	2	..	..	..	..	..	1	..	..
	Other integumentary diseases	2	2	2	4	..	..	1	1	..	..
	Total integumentary diseases	51	52	19	22	..	2	25	20	3	6
	Total local class	4,728	3,899	3,643	3,116	170	149	1,803	1,450	625	513
1	*Children.*										
	Premature birth	338	283	..	..	6	8	338	283	..	..
	Preternatural birth	55	44	..	..	1	..	55	44	..	..
	Cyanosis	68	70	..	..	..	..	67	70	..	..

and Color—Year 1885—(Continued).

2		3		4		Total Under 5 Years		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	1	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	2	..	2	..	..	2	5	1	1	4	1	1	..	1	1	..	..	..	..
1	..	2	..	1	..	4	..	4	6	1	3	1	..	1	..	..	..	..	1
..	1	..	..	1	..	1	2	3	3	5	3	1	..	1	..	..	..	..	..
1	..	1	1	..	..	2	3	5	4	4	2	1	2	..	2	1	..	1	1
..	..	..	..	..	..	1	..	..	..	1	1	..	..	1	..	..	..	..	..
..	..	..	..	..	..	1	1	1	..	1	..	..	..	..	..	..	..	..	..
2	4	3	3	2	..	11	13	14	14	16	10	4	2	4	3	1	..	1	2
1	1	..	..	..	..	8	14	1	..	..	..	1	2	2	3	1	2	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	7	4	..	2	..	..	..	..	..	..	..	..	..	1
1	..	..	..	..	..	3	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	1	..	..	10	3	3	1	..	2	1	..	1	1	2	..	..	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	3	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..
1	..	..	..	..	..	2	1	..	..	..	..	..	..	..	..	..	..	1	1
5	1	..	1	..	1	33	29	4	3	..	2	2	2	3	5	5	2	1	2
227	203	131	114	74	49	2,860	2,329	172	159	120	124	153	159	225	205	344	271	387	305
..	..	..	..	..	..	338	283	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	55	44	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	67	70	..	..	1	..	..	..	..	..	..	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
7	*Locomotory and Osseous.*												
	Arthritis	..	..	..	..	2	1	3	..	2	..	..	..
	Osteo-sarcoma	1	..	..	..	..	..	..	..	..	1	..	..
	Necrosis	..	..	1	..	..	..	..	1	..	..	2	1
	Spinal disease	1	1	1	..	..	1	1	..	1	..	..	1
	Hip disease	..	..	..	..	..	..	..	..	..	..	..	..
	Caries	3	1	1	1	..	2	1	..	..	..	..	..
	Synovitis	..	..	..	..	..	..	..	..	1	..	..	..
	Other locomotory and osseous diseases	..	..	..	..	..	..	..	..	..	..	..	..
	Total locomotory and osseous	5	2	3	1	2	4	5	1	4	1	2	3
8	*Integumentary.*												
	Abscess	1	4	2	1	..	1	..	2	..	1	3	1
	Pemphigus	..	..	..	..	..	..	..	1	..	..	..	..
	Eczema	..	..	..	..	..	..	..	..	1	..	..	1
	Otorrhœa	..	..	..	..	..	..	..	..	1	..	..	..
	Furuncles	..	..	..	1	..	..	..	..	..	..	..	..
	Otitis	2	1	..	2	..	..	1	1	..	..	..	..
	Ophthalmia	..	..	..	..	..	..	..	..	..	..	..	..
	Ulcer	..	..	..	..	..	..	..	1	1	..	..	..
	Gangrene	..	..	..	..	..	1	..	..	..	..	..	..
	Tumor	..	..	..	..	..	..	..	..	1	..	..	..
	Elephantiasis	..	..	..	..	..	..	..	1	..	..	..	..
	Exophthalmic goitre	..	..	..	..	..	..	..	..	..	..	..	1
	Psoriasis	..	..	..	..	..	..	..	..	..	..	..	..
	Other integumentary diseases	..	..	..	..	..	3	..	..	..	..	..	..
	Total integumentary diseases	3	5	2	4	..	5	1	6	4	1	3	3
	Total local class	449	312	516	367	549	363	487	443	504	382	485	457
1	*Children.*												
	Premature birth	..	..	..	..	..	..	..	..	..	..	..	..
	Preternatural birth	..	..	..	..	..	..	..	..	..	..	..	..
	Cyanosis	..	..	..	..	..	..	..	..	..	..	..	..

and Color—Year 1885—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	7	5	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	11	23
1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	16	14	30
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	12	8	20
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	20	18	38
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	4	2	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	4
1	1	..	2	2	1	..	..	..	..	..	..	..	..	..	..	75	60	135
1	..	..	1	..	1	..	1	..	..	..	..	..	..	..	..	20	34	54
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	8	16
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	21	11	32
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
3	..	2	..	..	..	1	1	..	..	..	..	..	..	..	..	8	5	13
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	4	6	10
4	..	4	1	..	1	1	3	..	..	..	..	..	..	..	..	70	74	144
396	327	317	296	224	260	99	158	64	64	13	26	7	6	..	2	8,371	7,015	15,386
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	338	283	621
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	55	44	99
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	68	70	138

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Children.*										
	Atelectasis pulmonum	110	72	1	..	..	..	111	71	..	1
	Spina bifida	11	9	..	..	..	..	10	9	1	..
	Imperforate anus	8	7	..	..	..	..	8	7	..	..
	Other malformations	13	17	..	..	..	1	13	16	..	..
	Hæmorrhage of umbilicus	17	12	..	..	1	..	17	12	..	..
	Cleft palate	3	3	..	..	..	..	3	3	..	..
	Total developmental diseases of children	623	517	1	..	8	9	622	515	1	1
2	*Women.*										
	Childbirth	..	10	..	17	..	..	..	..	..	..
	Flooding	..	5	..	15	..	..	..	..	..	..
	Puerperal metritis and metro-peritonitis	..	33	..	73	..	2	..	..	..	..
	Puerperal septicæmia	..	18	..	26	..	1	..	..	..	..
	Puerperal pyæmia	..	3	..	3	..	..	..	..	..	..
	Puerperal convulsions	..	22	..	14	..	..	..	..	..	..
	Puerperal mania	..	4	..	4	..	..	..	..	..	..
	Puerperal uræmia	..	6	..	9	..	..	..	..	..	..
	Miscarriage and abortion	..	19	..	21	..	1	..	..	..	..
	Phlegmasia dolens	..	1	..	..	..	..	..	..	..	..
	Placenta prævia	..	10	..	16	..	..	..	..	..	..
	Other developmental diseases of women	..	7	..	2	..	..	..	..	..	..
	Total developmental diseases of women	..	138	..	200	..	4	..	..	..	..
3	*Age.*										
	Senile gangrene	6	3	7	14	2	1	..	..	..	..
	Senile debility (old age)	27	69	122	243	2	6	..	..	..	..
	Total diseases of old age	33	72	129	257	4	7	..	..	..	..
4	*Nutrition.*										
	Atrophy	7	12	..	..	..	..	7	12	..	..
	Asthenia (debility)	51	35	..	..	2	..	50	33	1	1
	Total diseases of nutrition	58	47	..	..	2	..	57	45	1	1
	Total developmental class	714	774	130	457	14	20	679	560	2	2

and Color—*Year* 1885—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	111	72	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	11	9	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	8	7	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	13	17	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	17	17	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	3	3	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	623	517	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	10	..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	3	..	4	..	6
..	..	..	..	..	..	..	..	..	..	..	2	..	11	..	25	..	28	..	16
..	..	..	..	..	..	..	..	..	..	..	..	..	7	..	13	..	9	..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	12	..	9	..	7
..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2	..	2	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	..	2	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	..	12	..	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	5	..	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	3	..	4
..	..	..	..	..	..	..	..	..	..	..	2	..	25	..	81	..	84	..	69
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	7	12	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	51	34	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	58	46	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	681	563	..	..	1	2	..	25	..	81	..	84	..	69

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Children.*												
	Atelectasis pulmonum	..	..	..	..	..	..	..	..	..	..	..	..
	Spina bifida	..	..	..	..	..	..	..	..	..	..	..	..
	Imperforate anus	..	..	..	..	..	..	..	..	..	..	..	..
	Other malformations	..	..	..	..	..	..	..	..	..	..	..	..
	Hæmorrhage of umbilicus	..	..	..	..	..	..	..	..	..	..	..	..
	Cleft palate	..	..	..	..	..	..	..	..	..	..	..	..
	Total developmental diseases of children	..	..	..	..	..	..	..	..	..	..	..	..
2	*Women.*												
	Childbirth	..	4	..	3	..	..	..	..	..	..	..	..
	Flooding	..	4	..	2	..	..	..	..	..	..	..	..
	Puerperal metritis and metro-peritonitis	..	16	..	8	..	..	..	..	..	..	..	..
	Puerperal septicæmia	..	7	..	3	..	..	..	..	..	..	..	..
	Puerperal pyæmia	..	..	..	..	..	..	..	..	..	..	..	..
	Puerperal convulsions	..	2	..	3	..	..	..	..	..	..	..	..
	Puerperal mania	..	1	..	1	..	..	..	..	..	..	..	..
	Puerperal uræmia	..	2	..	1	..	..	..	..	..	..	..	..
	Miscarriage and abortion	..	5	..	4	..	..	..	..	..	..	..	..
	Phlegmasia dolens	..	..	..	..	..	..	..	..	..	..	..	..
	Placenta prævia	..	7	..	3	..	..	..	..	..	..	..	..
	Other developmental diseases of women	..	..	..	1	..	..	..	..	..	..	..	..
	Total developmental diseases of women	..	48	..	29	..	..	..	..	..	..	..	..
3	*Age.*												
	Senile gangrene	..	..	..	..	..	..	..	..	2	1	1	3
	Senile debility (old age)	..	..	..	..	..	..	1	1	7	6	5	16
	Total diseases of old age	..	..	..	..	..	..	1	1	9	7	6	19
4	*Nutrition.*												
	Atrophy	..	..	..	..	..	..	..	..	..	..	..	..
	Asthenia (debility)	..	1	..	..	..	..	..	..	..	..	..	..
	Total diseases of nutrition	..	1	..	..	..	..	..	..	..	..	..	..
	Total developmental class	..	49	..	29	..	..	1	1	9	7	6	19

and Color—Year 1885—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	111	72	183
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	9	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	7	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	17	30
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17	12	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	624	517	1,141
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	27	27
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	106	106
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	44	44
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	36	36
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40	40
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	26	26
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	338	338
4	2	1	3	1	5	1	2	2	1	1	..	..	..	..	..	13	17	30
8	23	25	52	31	60	30	59	30	57	8	26	2	8	2	4	149	312	461
12	25	26	55	32	65	31	61	32	58	9	26	2	8	2	4	162	329	491
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	12	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	51	35	86
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	58	47	105
12	25	26	55	32	65	31	61	32	58	9	26	2	8	2	4	844	1,231	2,075

Order.	Causes of Death.	Nativity.				Colored		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Accident and Negligence.*										
	Fractures and contusions	61	10	89	13	1	..	1	..	..	1
	Wounds by gunshot	11	3	13	1	..	..	..	..	..	..
	Killed by vehicles in the street	25	10	36	5	..	..	..	..	..	1
	Fall	121	38	130	41	3	..	7	3	7	6
	Burns and scalds	25	34	11	24	..	1	1	2	4	5
	Poison by laudanum	1	1	..	..	..	..	1	..	..	..
	Poison by lead	2	1	3	..	..	..	..	..	..	..
	Poison by carbolic acid	1	1	..	..	..	..	..	..	..	1
	Poison by hydrate of chloral	1	..	..	..	..	..	..	..	..	..
	Poison by opium	3	3	2	..	..	..	1	1	..	..
	Poison by other means	8	7	7	6	1	..	3	1	..	1
	Suffocation (asphyxia by)	18	17	15	9	..	..	10	10	..	..
	Drowning	54	5	107	10	..	1	3	..	1	3
	Neglect and exposure	1	1	..	..	..	..	1	1	..	..
	Surgical operations	10	38	12	28	..	2	3	..	..	..
	Self-produced abortion	..	2	..	2	..	..	..	..	..	..
	Frost-bite of finger and hand	..	..	1	..	..	..	..	..	..	..
	Total accident and negligence	342	171	426	139	5	4	31	18	12	18
2	*Homicide.*										
	By gunshot	4	1	10	..	2	..	..	..	..	..
	By blows	9	..	9	3	..	..	..	..	..	..
	By cut, stab	2	..	9	1	..	..	..	..	..	..
	By drowning	1	1	..	..	..	..	..	1	..	..
	By other means	1	4	3	1	..	..	..	2	..	..
	Total homicidal deaths	17	6	31	5	2	..	..	3	..	..
3	*Suicide.*										
	By poisons	8	7	30	9	..	1	..	..	..	..
	By drowning	..	..	6	3	..	..	..	..	..	..
	By hanging	4	..	26	4	..	..	..	..	..	..
	By leap	5	3	6	2	..	1	..	..	..	..

and Color—Year 1885—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	..	1	..	2	..	6	1	6	3	2	..	9	2	7	1	22	1	17	2
..	..	..	..	..	..	..	..	2	..	1	..	4	..	..	2	4	1	..	..
1	3	..	..	1	2	2	6	10	4	3	..	1	..	2	..	12	..	3	1
8	1	6	4	3	2	31	16	18	6	10	1	13	1	15	3	20	4	23	7
10	2	3	3	4	1	22	13	4	6	..	2	1	5	1	5	1	4	1	2
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	1	..	..	1
..	..	..	..	1	..	4	2	1	..	..	..	..	..	..	..	2	..	2	4
..	1	..	..	1	..	11	11	1	..	2	2	1	3	1	1	2	2	5	2
..	1	..	..	..	..	4	4	10	..	16	..	4	..	13	2	9	..	11	1
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	3	1	..	1	..	1	2	2	..	10	1	7	1	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	8	10	8	12	5	86	57	52	20	34	6	35	13	39	24	76	22	65	29
..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	3	..	3	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	3	..	3	..	2	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	2	..	..	..
..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..
1	1	..	..	..	..	1	3	..	1	..	..	..	..	..	..	..	..	..	..
1	1	..	..	..	..	1	4	1	1	..	..	2	..	8	1	8	..	5	..
..	..	..	..	..	..	..	..	..	..	..	..	1	2	2	3	6	..	5	3
..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	2	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..	2	..	6	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	2	1

Order.	Causes of Death.	Nativity.				Colored		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Accident and Negligence.*										
	Fractures and contusions	61	10	89	13	1	..	1	..	..	1
	Wounds by gunshot	11	3	13	1	..	..	..	..	..	..
	Killed by vehicles in the street	25	10	36	5	..	..	..	..	..	1
	Fall	121	38	130	41	3	..	7	3	7	6
	Burns and scalds	25	34	11	24	..	1	1	2	4	5
	Poison by laudanum	1	1	..	..	..	..	1	..	..	..
	Poison by lead	2	1	3	..	..	..	..	..	..	..
	Poison by carbolic acid	1	1	..	..	..	..	..	..	..	1
	Poison by hydrate of chloral	1	..	..	..	..	..	..	..	..	..
	Poison by opium	3	3	2	..	..	..	1	1	..	..
	Poison by other means	8	7	7	6	1	..	3	1	..	1
	Suffocation (asphyxia by)	18	17	15	9	..	..	10	10	..	..
	Drowning	54	5	107	10	..	1	3	..	1	3
	Neglect and exposure	1	1	..	..	..	..	1	1	..	..
	Surgical operations	10	38	12	28	..	2	3	..	..	..
	Self-produced abortion	..	2	..	2	..	..	..	..	..	..
	Frost-bite of finger and hand	..	..	1	..	..	..	..	..	..	..
	Total accident and negligence	342	171	426	139	5	4	31	18	12	18
2	*Homicide.*										
	By gunshot	4	1	10	..	2	..	..	..	..	..
	By blows	9	..	9	3	..	..	..	..	..	..
	By cut, stab	2	..	9	1	..	..	..	..	..	..
	By drowning	1	1	..	..	..	..	..	1	..	..
	By other means	1	4	3	1	..	..	..	2	..	..
	Total homicidal deaths	17	6	31	5	2	..	..	3	..	..
3	*Suicide.*										
	By poisons	8	7	30	9	..	1	..	..	..	..
	By drowning	..	..	6	3	..	..	..	..	..	..
	By hanging	4	..	26	4	..	..	..	..	..	..
	By leap	5	3	6	2	..	1	..	..	..	..

and Color—Year 1885—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	..	1	..	2	..	6	1	6	3	2	..	9	2	7	1	22	1	17	2
..	..	..	..	..	..	..	..	2	..	1	..	4	..	..	2	4	1	..	..
1	3	..	..	1	2	2	6	10	4	3	..	1	..	2	..	12	..	3	1
8	1	6	4	3	2	31	16	18	6	10	1	13	1	15	3	20	4	23	7
10	2	3	3	4	1	22	13	4	6	..	2	1	5	1	5	1	4	1	2
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	1	..	..	1
..	..	..	..	1	..	4	2	1	..	..	..	..	..	..	..	2	..	2	4
..	1	..	..	1	..	11	11	1	..	2	2	1	3	1	1	2	2	5	2
..	1	..	..	..	..	4	4	10	..	16	..	4	..	13	2	9	..	11	1
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	3	1	..	1	..	1	2	2	..	10	1	7	1	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	8	10	8	12	5	86	57	52	20	34	6	35	13	39	24	76	22	65	29
..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	3	..	3	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	3	..	3	..	2	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	2	..	..	..
..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..
1	1	..	..	..	..	1	3	..	1	..	..	..	..	..	..	..	..	..	..
1	1	..	..	..	..	1	4	1	1	..	..	2	..	8	1	8	..	5	..
..	..	..	..	..	..	..	..	..	..	..	..	1	2	2	3	6	..	5	3
..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	2	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..	2	..	6	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	2	1

Order.	Causes of Death.	Nativity.				Colored		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Accident and Negligence.*										
	Fractures and contusions	61	10	89	13	1	..	1	..	..	1
	Wounds by gunshot	11	3	13	1	..	..	..	..	..	..
	Killed by vehicles in the street	25	10	36	5	..	..	..	..	..	1
	Fall	121	38	130	41	3	..	7	3	7	6
	Burns and scalds	25	34	11	24	..	1	1	2	4	5
	Poison by laudanum	1	1	..	..	..	..	1	..	..	..
	Poison by lead	2	1	3	..	..	..	..	..	..	..
	Poison by carbolic acid	1	1	..	..	..	..	..	..	..	1
	Poison by hydrate of chloral	1	..	..	..	..	..	..	..	..	..
	Poison by opium	3	3	2	..	..	..	1	1	..	..
	Poison by other means	8	7	7	6	1	..	3	1	..	1
	Suffocation (asphyxia by)	18	17	15	9	..	..	10	10	..	..
	Drowning	54	5	107	10	..	1	3	..	1	3
	Neglect and exposure	1	1	..	..	..	..	1	1	..	..
	Surgical operations	10	38	12	28	..	2	3	..	..	..
	Self-produced abortion	..	2	..	2	..	..	..	..	..	..
	Frost-bite of finger and hand	..	..	1	..	..	..	..	..	..	..
	Total accident and negligence	342	171	426	139	5	4	31	18	12	18
2	*Homicide.*										
	By gunshot	4	1	10	..	2	..	..	..	..	..
	By blows	9	..	9	3	..	..	..	..	..	..
	By cut, stab	2	..	9	1	..	..	..	..	..	..
	By drowning	1	1	..	..	..	..	..	1	..	..
	By other means	1	4	3	1	..	..	..	2	..	..
	Total homicidal deaths	17	6	31	5	2	..	..	3	..	..
3	*Suicide.*										
	By poisons	8	7	30	9	..	1	..	..	..	..
	By drowning	..	..	6	3	..	..	..	..	..	..
	By hanging	4	..	26	4	..	..	..	..	..	..
	By leap	5	3	6	2	..	1	..	..	..	..

and Color—Year 1885—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	..	1	..	2	..	6	1	6	3	2	..	9	2	7	1	22	1	17	2
..	..	..	..	..	..	..	..	2	..	1	..	4	..	..	2	4	1	..	..
1	3	..	..	1	2	2	6	10	4	3	..	1	..	2	..	12	..	3	1
8	1	6	4	3	2	31	16	18	6	10	1	13	1	15	3	20	4	23	7
10	2	3	3	4	1	22	13	4	6	..	2	1	5	1	5	1	4	1	2
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	1	..	..	1
..	..	..	..	1	..	4	2	1	..	..	..	..	..	..	..	2	..	2	4
..	1	..	..	1	..	11	11	1	..	2	2	1	3	1	1	2	2	5	2
..	1	..	..	..	..	4	4	10	..	16	..	4	..	13	2	9	..	11	1
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	3	1	..	1	..	1	2	2	..	10	1	7	1	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	8	10	8	12	5	86	57	52	20	34	6	35	13	39	24	76	22	65	29
..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	3	..	3	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	3	..	3	..	2	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	2	..	..	..
..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..
1	1	..	..	..	..	1	3	..	1	..	..	..	..	..	..	..	..	..	..
1	1	..	..	..	..	1	4	1	1	..	..	2	..	8	1	8	..	5	..
..	..	..	..	..	..	..	..	..	..	..	..	1	2	2	3	6	..	5	3
..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	2	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..	2	..	6	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	2	1

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Accident and Negligence.*												
	Fractures and contusions	15	..	21	..	16	1	9	..	5	4	4	2
	Wounds by gunshot	2	..	1	..	1	..	5	1	1	..	1	..
	Killed by vehicles in the street	4	..	3	1	4	..	5	..	5	..	2	1
	Fall	18	5	28	4	16	3	18	7	13	1	11	3
	Burns and scalds	3	2	1	3	..	3	1	3	1	1	..	2
	Poison by laudanum	..	..	..	..	..	..	..	..	..	..	..	..
	Poison by lead	1	..	..	..	1	..	..	..	1	..	..	..
	Poison by carbolic acid	..	..	..	..	..	..	..	..	..	..	..	..
	Poison by hydrate of chloral	..	..	..	..	..	..	..	..	..	..	..	..
	Poison by opium	..	1	..	..	1	..	1	..	..	..	..	..
	Poison by other means	2	2	1	1	1	..	1	1	..	2	1	..
	Suffocation (asphyxia by)	3	..	2	1	2	..	1	1	1	3	..	..
	Drowning	22	1	21	2	12	1	13	..	12	3	7	1
	Neglect and exposure	..	..	..	..	..	..	..	..	..	..	..	..
	Surgical operations	..	7	4	13	4	5	4	6	1	1	1	5
	Self-produced abortion	..	..	..	..	..	..	..	..	..	..	..	..
	Frost-bite of finger and hand	..	..	..	..	..	..	1	..	..	..	..	.
	Total accident and negligence	70	18	82	25	58	13	59	19	40	15	27	16
2	*Homicide.*												
	By gunshot	4	..	..	..	2	..	..	..	..	..	..	..
	By blows	2	1	3	2	1	..	2	..	..	..	1	..
	By cut, stab	2	1	2	..	1	..	..	..	..	..	..	..
	By drowning	..	..	..	..	..	..	..	..	..	..	..	..
	By other means	..	1	1	..	1	..	1	..	..	..	..	..
	Total homicidal deaths	8	3	6	2	5	..	3	..	..	..	1	..
3	*Suicide.*												
	By poisons	4	2	6	3	6	2	4	..	2	..	..	..
	By drowning	..	..	..	..	..	1	..	..	..	..	1	..
	By hanging	2	..	2	..	5	1	4	..	4	..	2	..
	By leap	1	1	1	..	2	..	1	..	1	1	..	..

and Color—Year 1885—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
5	1	3	2	1	1	2	2	..	..	..	..	..	..	..	..	150	23	173
1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	24	4	28
3	..	..	..	..	1	1	..	1	..	..	1	..	..	..	..	61	15	76
4	4	3	2	3	3	5	2	2	5	..	..	..	..	..	..	251	79	330
..	1	..	2	..	1	..	2	..	1	..	..	..	..	..	..	36	58	94
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	3	8
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	15	13	28
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	33	26	59
4	..	..	..	2	..	..	..	1	..	..	..	..	..	..	..	161	15	176
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	22	66	88
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
18	7	8	6	7	7	8	6	4	6	..	1	..	..	..	..	768	310	1,078
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	1	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	3	21
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	1	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	5	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	48	11	59
1	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	38	16	54
1	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	6	3	9
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	30	4	34
..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	11	5	16

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Suicide.*										
	By gunshot	22	3	49	4	..	..	..	..	..	..
	By cutting	1	..	2	4	..	..	..	..	..	..
	By illuminating gas	2	1	5	..	..	..	..	..	..	..
	By throwing himself in front of an engine	..	..	1	..	..	..	..	..	..	..
	Total suicidal deaths	42	14	125	26	..	2	..	..	..	..
5	Sudden deaths—Cause unascertained	1	..	..	..	1	..	..	..	..	..
	Total violent deaths	402	191	582	170	8	6	31	21	12	16
	Total deaths at all ages and from all causes	12,088	10,744	6,828	6,022	333	338	5,035	4,268	1,589	1,420

and Color—Year 1885—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F	M	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	2	..	16	2	6	1	5	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	4	4	22	5	20	1	19	7
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
22	9	10	8	12	5	87	61	53	21	34	6	42	17	69	30	104	23	89	36
753	694	495	463	292	263	8,159	7,108	586	553	246	243	393	413	685	754	992	891	945	829

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Suicide.*												
	By gunshot	7	2	10	..	5	1	6	..	9	..	4	..
	By cutting	..	..	..	2	..	..	..	..	..	1	..	..
	By illuminating gas	1	..	1	..	1	..	1	..	1	..	1	..
	By throwing himself in front of an engine	..	..	..	..	..	..	..	..	..	..	..	..
	Total suicidal deaths	15	5	20	5	19	5	16	..	17	2	8	..
5	Sudden deaths—Cause unascertained	..	..	..	..	..	..	..	..	..	..	..	..
	Total violent deaths	93	26	108	32	82	18	78	19	57	17	36	16
	Total deaths at all ages and from all causes	985	763	1,010	760	950	653	854	691	793	616	723	689

and Color— Year 1885—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F	M.	F.	M.	F.	
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	71	7	78
1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	4	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	1	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
3	3	2	1	1	..	1	1	..	..	..	1	..	..	..	..	167	40	207
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
21	10	10	7	8	7	9	7	4	6	..	2	..	..	..	..	984	361	1,345
540	480	429	453	317	387	164	260	108	145	23	58	9	14	5	6	18,916	16,766	35,682

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Miasmatic.*										
	Small-pox and varioloid	14	8	8	1	1	..	4	4	1	..
	Varicella	1	2	..	..	..	..	1	1	..	1
	Measles	321	308	25	14	5	..	93	77	156	127
	Scarlatina	182	161	16	12	..	..	14	10	46	34
	Diphtheria	812	813	53	49	4	5	82	63	186	167
	Croup	504	420	24	20	2	1	77	54	143	124
	Quinsy (tonsilitis, angina maligna, etc.)	13	6	2	..	..	..	3	2	2	1
	Parotitis	5	3	..	1	..	..	2	1	1	1
	Whooping-cough	255	307	6	7	8	12	144	159	70	88
	Erysipelas	47	44	34	14	1	1	32	31	1	1
	Pyæmia	..	2	1	..	..	..	..	1	..	1
	Carbuncle	1	..	5	2	..	..	..	..	..	..
	Dysentery	72	57	49	72	1	1	22	22	23	10
	Diarrhœa	1,409	1,175	104	126	27	25	1,126	920	223	193
	Cholera (Asiatic)	..	..	..	..	..	..	..	..	..	..
	Cholera morbus	12	5	15	21	1	..	..	..	..	..
	Entero-colitis	179	178	11	9	3	2	154	138	22	28
	Cerebro-spinal fever	105	85	19	14	..	..	34	17	13	21
	Typhus fever	5	..	6	3	..	..	..	..	..	..
	Typhoid fever	85	71	97	72	3	1	4	1	2	..
	Continued fever	2	..	..	..	..	..	..	..	..	..
	Remittent fever	51	55	17	28	..	..	6	4	2	10
	Intermittent fever	40	42	20	19	..	2	7	5	6	6
	Typho-malarial fever	35	27	20	26	1	..	..	1	..	..
	Congestive chills	5	3	3	1	..	..	1	1	..	..
	Puerperal fever (other puerperal diseases, see order of women)	..	14	..	24	..	1	..	..	..	..
	Yellow fever	..	..	1	..	..	..	..	..	..	..
	Total miasmatic diseases	4,155	3,786	536	535	57	51	1,806	1,512	897	813
2	*Enthetic or Inoculated.*										
	Syphilis	69	63	17	8	1	3	54	54	3	3
	Total enthetic or inoculated diseases	69	63	17	8	1	3	54	54	3	3

and Color—Year 1886.

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	1	..	..	1	2	8	7	3	2	..	..	1	..	..	..	2	..	2	..
..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..	..	..	..
40	58	27	25	9	12	325	299	16	22	..	..	1	1	1	..	2	..	..	..
37	36	36	30	28	30	161	140	30	26	3	4	..	..	2	..	1	2	..	..
170	179	137	137	101	97	676	643	163	174	15	26	2	2	2	4	3	7	2	..
118	100	76	65	48	36	462	379	63	60	1	1	..	..	..	..	..	..	..	..
3	..	..	1	..	..	8	4	3	2	..	..	1	..	..	..	1	..	1	..
1	..	..	..	..	..	4	2	1	..	..	1	..	..	..	..	..	..	..	..
24	22	9	23	7	12	254	304	7	9	..	1	..	..	..	..	..	..	..	..
..	1	1	..	1	1	35	34	..	1	..	..	1	1	3	3	8	2	2	2
..	..	..	..	..	..	..	2	..	..	..	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	10	3	1	4	2	56	45	1	4	3	1	2	5	3	4	9	4	5	1
23	24	14	6	4	5	1,390	1,148	8	5	2	1	2	2	1	4	11	2	7	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	6	..	..	1	..	..	..	3	2	..	..	2
1	2	1	3	1	1	179	172	2	3	..	..	..	..	..	1	1	1	1	..
15	14	5	7	5	5	72	64	18	13	6	4	3	4	4	1	9	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	2	..
2	1	3	2	4	2	15	6	9	8	5	13	22	21	41	27	26	15	15	15
..	..	1	..	1	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
9	3	4	5	3	4	24	26	8	5	1	3	1	5	3	7	3	6	1	5
6	6	3	1	1	..	23	18	5	5	3	2	2	..	2	3	2	5	2	2
3	1	2	..	4	2	9	4	6	6	1	2	2	1	7	6	4	7	3	3
..	..	..	..	..	..	1	1	..	..	1	..	1	..	..	1	1	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	13	..	5	..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
458	458	322	306	222	211	3,705	3,300	349	345	41	60	42	44	71	77	86	57	45	42
1	1	..	..	..	..	58	58	..	1	..	..	..	1	1	..	5	2	5	2
1	1	..	..	..	..	58	58	..	1	..	..	..	1	1	..	5	2	5	2

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Miasmatic.*												
	Small-pox and varioloid	2	..	2	..	1	..	..	..	1	..	..	..
	Varicella	..	..	..	..	..	..	..	..	..	..	..	..
	Measles	1	..	..	..	..	..	..	..	..	..	..	..
	Scarlatina	..	1	..	..	..	..	..	..	..	..	..	..
	Diphtheria	..	2	2	1	..	1	..	..	..	1	..	..
	Croup	..	..	1	..	1	..	..	..	..	..	..	..
	Quinsy (tonsilitis, angina maligna, etc.)	..	..	..	..	1	..	..	..	..	..	..	..
	Parotitis	..	..	..	..	..	..	..	..	..	..	..	..
	Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..
	Erysipelas	2	1	7	3	7	..	6	..	3	3	1	3
	Pyæmia	..	..	..	..	..	..	..	..	..	..	..	..
	Carbuncle	2	..	..	..	..	..	1	1	..	..	3	1
	Dysentery	7	3	3	4	2	4	6	8	6	12	4	8
	Diarrhœa	9	5	4	8	5	8	13	6	9	14	10	15
	Cholera (Asiatic)	..	..	..	..	..	..	..	..	..	..	..	..
	Cholera morbus	3	1	1	1	3	1	2	4	4	2	3	4
	Entero-colitis	3	..	2	1	1	..	..	1	..	2	..	1
	Cerebro-spinal fever	2	1	2	2	..	2	2	1	1	1	2	1
	Typhus fever	2	1	1	1	3	..	..	1	1	..	..	..
	Typhoid fever	17	8	11	5	7	8	3	8	5	..	2	4
	Continued fever	..	..	..	..	..	..	..	..	..	..	..	..
	Remittent fever	6	3	6	2	3	4	2	3	2	3	2	1
	Intermittent fever	4	1	1	2	2	4	2	2	1	4	4	6
	Typho-malarial fever	7	3	2	6	3	4	4	4	3	1	2	3
	Congestive chills	..		..	..	..	1	..	..	1	..	1	..
	Puerperal fever (other puerperal diseases, see order of women)	..	11	..	2	..	..	..	..	..	..	..	..
	Yellow fever	..	..	..	..	..	..	..	..	..	..	..	..
	Total miasmatic diseases	67	41	45	38	39	37	41	39	37	43	34	47
2	*Enthetic or Inoculated.*												
	Syphilis	1	2	6	..	4	3	3	1	2	1	..	..
	Total enthetic or inoculated diseases	1	2	6	..	4	3	3	1	2	1	..	..

and Color—Year 1886—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22	9	31
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	346	322	668
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	198	173	371
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	865	862	1,727
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	528	440	968
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	6	21
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	4	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	261	314	575
4	2	1	1	1	1	..	1	..	1	..	..	..	..	..	..	81	58	139
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	2	8
4	5	3	7	5	9	1	2	1	..	..	3	..	..	..	..	121	129	250
9	16	14	23	8	16	9	12	2	10	..	1	..	..	..	..	1,513	1,301	2,814
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	3	..	..	..	3	1	..	1	1	..	..	..	..	..	..	27	26	53
1	2	..	2	..	..	..	1	..	..	..	..	..	..	..	..	190	187	377
1	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	124	99	223
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	3	14
1	1	3	3	..	1	..	..	..	..	..	..	..	..	..	..	182	143	325
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
2	4	..	2	1	3	2	1	1	..	..	..	..	..	..	..	68	83	151
4	2	..	2	1	2	1	1	1	..	..	..	..	..	..	..	60	61	121
2	2	..	..	..	1	..	..	..	..	..	..	..	..	..	..	55	53	108
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	8	4	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	38	38
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
30	40	22	40	17	37	14	18	6	12	..	4	..	..	..	..	4,691	4,321	9,012
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	86	71	157
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	86	71	157

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Dietetic.*										
	Inanition (privation, etc.)	115	100	6	1	..	2	118	95	..	5
	Scurvy	1	..	1	6	..	..	1	..	..	..
	Purpura	7	7	2	1	..	..	4	2	2	1
	Alcoholism *a.* Intemperance	46	10	77	18	..	..	..	..	..	..
	Alcoholism *b.* Delirium tremens	31	..	26	2	..	..	..	..	..	..
	Total dietetic diseases	200	117	112	28	..	2	123	97	2	6
4	*Parasitic.*										
	Aphthæ	15	7	..	..	1	..	14	6	1	1
	Worms	5	2	2	..	..	..	1	..	2	..
	Total parasitic dieases	20	9	2	..	1	..	15	6	3	1
	Total zymotic class	4,444	3,975	667	571	59	56	1,998	1,669	905	823
1	*Diathetic.*										
	Gout	3	..	2	..	..	..	..	..	..	..
	Rheumatism	37	29	43	43	2	1	2	..	1	..
	Anæmia	7	8	3	6	1	1	2	4	..	..
	Cancer of stomach	11	11	83	73	1	2	..	..	..	..
	Cancer of breast	..	32	..	50	..	2	..	..	..	..
	Cancer of uterus	..	57	..	123	..	2	..	..	..	..
	Cancer of liver	5	15	43	45	..	..	..	..	..	..
	Cancer of rectum	3	3	11	6	..	..	..	..	..	..
	Cancer, others	28	35	73	70	2	..	..	1	..	1
	Fungus hæmatodes	..	..	..	1	..	..	..	..	..	..
	Lupus exedens	..	..	..	1	..	..	..	..	..	..
	Noma (cancrum oris)	3	3	1	..	..	..	1	..	1	1
	Other diathetic diseases	1	1	..	3	..	..	..	..	..	..
	Total diathetic diseases	98	194	259	421	6	8	5	5	2	2
2	*Tubercular.*										
	Scrofula	13	14	2	..	1	2	8	10	2	2
	Lumbar abscess (psoas abscess, etc.)	..	1	1	1	..	..	..	..	..	..
	Tabes mesenterica and marasmus	540	411	8	2	9	11	498	365	34	32

and Color—Year 1886—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	118	100	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	1	..
..	1	..	..	..	1	6	5	1	..	..	1	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	1	..	..	..	..	..	2	1	13	4	15	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	9	..	15	1
..	1	..	..	..	1	125	105	2	..	..	1	..	..	4	2	22	4	31	7
..	..	..	..	..	..	15	7	..	..	..	..	..	..	..	..	..	..	..	..
1	..	2	..	1	..	7	..	..	2	..	..	..	..	..	..	..	..	..	..
1	..	2	..	1	..	22	7	..	2	..	..	..	..	..	..	..	..	..	..
460	460	324	306	223	212	3,910	3,470	351	348	41	61	42	45	76	79	113	63	81	51
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	1	1	..	1	2	6	3	2	1	8	2	2	2	4	3	6	5	4	5
..	..	..	..	..	..	2	4	..	..	..	..	1	..	1	3	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	6	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	4	..	11
..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..
2	1	2	..	..	..	4	3	1	1	..	1	..	2	3	5	4	7	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	1	1	..	4	2	..	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..
4	3	3	1	3	2	17	13	3	3	8	3	3	4	9	14	12	19	12	23
2	1	1	..	..	..	13	13	1	..	..	1	..	..	..	..	..	..	1	..
..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..
5	10	7	3	..	..	544	410	4	2	..	1	..	..	..	..	..	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Dietetic.*												
	Inanition (privation, etc.)	..	..	..	..	..	..	..	..	..	..	..	..
	Scurvy	..	..	..	..	..	..	..	..	..	4	..	1
	Purpura	..	..	1	..	1	..	..	..	..	..	..	..
	Alcoholism *a.* Intemperance	27	2	20	3	11	3	14	7	7	..	5	1
	Alcoholism *b.* Delirium tremens	11	..	7	1	8	..	1	..	2	..	..	..
	Total dietetic diseases	38	2	28	4	20	3	15	7	9	4	5	2
	Parasitic.												
	Aphthæ	..	..	..	..	..	..	..	..	..	..	..	..
	Worms	..	..	..	..	..	..	..	..	..	..	..	..
	Total parasitic diseases	..	..	..	..	..	..	..	..	..	..	..	..
	Total zymotic class	106	45	79	42	63	43	59	47	48	48	39	49
1	*Diathetic.*												
	Gout	..	..	..	..	..	..	1	..	..	..	1	..
	Rheumatism	3	3	4	5	9	3	5	5	3	4	7	7
	Anæmia	2	3	..	1	..	..	..	1	..	..	2	1
	Cancer of stomach	4	6	10	7	11	12	15	11	13	15	15	12
	Cancer of breast	..	4	..	10	..	12	..	11	..	9	..	11
	Cancer of uterus	..	16	..	25	..	38	..	23	..	25	..	16
	Cancer of liver	3	5	6	8	5	7	8	5	11	7	5	7
	Cancer of rectum	..	2	..	3	..	..	1	..	3	1	4	2
	Cancer, others	10	11	6	8	9	9	18	10	15	8	12	9
	Fungus hæmatodes	..	..	..	..	..	..	..	..	..	1	..	..
	Lupus exedens	..	..	..	..	..	..	..	..	..	..	..	..
	Noma (cancrum oris)	..	..	..	..	..	..	..	..	..	..	..	..
	Other diathetic diseases	..	1	..	..	..	..	..	..	..	1	..	..
	Total diathetic diseases	22	51	26	67	34	81	48	66	45	71	46	65
2	*Tubercular.*												
	Scrofula	..	..	..	..	..	..	..	..	..	..	..	..
	Lumbar abscess (psoas abscess, etc.)	..	..	..	..	..	..	1	..	..	..	..	..
	Tabes mesenterica and marasmus	..	..	..	..	..	..	..	..	..	..	..	..

and Color—Year 1886—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	2	..	1	..	..	..	..	1	..	..	..	..	..	..	121	101	222
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	6	8
..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	9	8	17
3	1	3	..	1	..	1	..	..	..	..	..	..	..	..	..	123	28	151
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	57	2	59
5	1	5	1	2	..	1	1	..	1	..	..	..	..	..	..	312	145	457
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	7	22
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	2	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22	9	31
36	41	27	41	19	37	15	19	6	13	..	4	..	..	..	..	5,111	4,516	9,657
..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	5
6	10	4	7	3	4	3	1	1	2	..	..	..	..	..	..	80	72	152
1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	10	14	24
14	8	4	4	2	4	..	1	..	..	..	..	..	..	..	..	94	84	178
..	12	..	8	..	1	..	1	..	..	..	..	..	..	..	1	..	82	82
..	15	..	5	..	..	..	1	..	..	..	..	..	..	..	..	..	180	180
3	9	3	6	3	4	..	..	..	..	..	..	..	..	..	..	48	60	108
1	1	2	..	1	..	..	..	..	..	..	..	..	..	..	..	14	9	23
10	9	3	9	1	5	2	1	1	3	..	..	..	1	..	..	101	105	206
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	3	7
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	4	5
35	65	19	39	11	18	5	6	2	5	..	..	..	1	..	1	357	615	972
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	14	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	548	413	961

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Tubercular.*										
	Phthisis pulmonalis	1,398	1,152	1,751	1,176	115	62	68	40	35	21
	Hydrocephalus and tubercular meningitis	396	314	26	15	18	13	172	144	99	95
	Rachitis	15	10	1	..	2	1	9	4	3	4
	Other tubercular diseases	3	3	2	4	..	..	..	..	1	..
	Total tubercular diseases	2,365	1,905	1,791	1,198	145	89	755	563	174	154
	Total constitutional class	2,462	2,099	2,050	1,619	151	97	760	568	176	156
1	*Nervous.*										
	Meningitis	425	332	65	50	12	5	214	153	90	68
	Encephalitis	6	2	5	..	..	..	3	..	..	..
	Softening of brain	13	16	32	25	..	1	..	..	..	..
	Apoplexy	135	96	268	263	6	11	10	10	2	1
	Insanity	15	18	25	58	1	..	..	..	..	..
	Epilepsy	21	24	17	17	..	1	..	..	..	..
	Convulsions	303	230	6	3	7	3	247	182	49	38
	Laryngismus stridulus	8	4	..	..	1	..	4	3	2	1
	Paralysis	63	24	76	31	3	3	..	..	1	..
	Paraplegia	3	1	2	3	..	..	..	..	..	..
	Hemiplegia	9	7	18	23	1	..	1	..	..	..
	Chorea	1	..	1	..	..	..	..	..	..	..
	Tetanus	..	..	1	..	..	..	..	..	..	..
	Trismus nascentium	34	22	..	..	..	..	33	22	1	..
	Myelitis	7	9	17	10	2	..	..	..	..	..
	Congestion of brain	77	53	14	8	3	1	48	34	14	11
	Abscess of brain	..	3	2	2	..	..	..	1	..	1
	Tumor of brain	7	4	3	..	..	1	..	..	..	..
	Cerebro-spinal sclerosis	5	3	..	4	..	..	..	..	..	1
	Glosso-labio-laryngeal paralysis	..	..	1	..	..	..	..	..	..	..
	Menière's disease of vestibule	..	..	1	..	..	..	..	..	..	..
	Progressive locomotor ataxia	7	2	8	3	..	1	..	..	..	..
	Tabes dorsalis	..	3	5	3	..	..	..	1	..	..
	Direct effect of solar heat	7	5	24	6	..	..	1	2	..	1
	Other nervous diseases	3	3	7	6	..	..	..	..	..	..
	Total nervous diseases	1,149	861	598	515	36	27	561	408	159	122

and Color—Year 1886—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
15	12	8	7	5	5	131	85	17	21	21	27	132	169	356	336	438	411	422	305
47	33	25	10	11	12	354	294	37	21	12	3	3	1	2	3	3	5	2	..
2	1	2	1	..	..	16	10	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	3	..	..	2	..
71	58	43	21	16	17	1,059	813	59	44	33	32	135	170	358	342	441	417	427	305
75	61	46	22	19	19	1,076	826	62	47	41	35	138	174	367	356	453	436	439	328
34	33	15	20	10	8	363	282	23	23	5	6	6	10	16	3	15	3	8	9
1	1	..	..	1	..	5	1	1	1	..	..	1	..	..	..	..	..	..	..
..	..	..	..	..	1	..	1	..	..	..	..	..	..	1	..	..	1	1	..
1	1	..	1	..	..	13	13	1	1	..	1	2	..	2	1	9	6	10	9
..	..	..	..	..	..	..	..	..	..	..	..	..	1	4	4	4	6	5	2
..	..	1	1	..	..	1	1	3	6	2	1	5	4	3	3	4	4	2	2
10	7	1	4	..	2	307	233	1	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	7	4	1	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	2	..	3	..	1	1	..	..	3	..	6	4	5	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..
..	1	..	1	..	..	1	2	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	34	22	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	1	..	..	2	1	1	1	..	..	1	7
5	3	2	1	2	1	71	50	2	..	..	..	..	1	1	..	4	1	1	1
..	..	..	..	..	..	..	2	..	1	..	1	1	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	2	2	1	..	..	..	1	..	1	1
..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	1	1	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	1	..
1	..	..	..	..	..	2	3	1	1	..	..	..	..	4	1	3	1	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52	46	21	28	13	12	806	616	36	35	11	12	18	18	37	14	48	27	38	32

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Tubercular.												
	Phthisis pulmonalis	414	290	344	167	283	142	190	114	142	78	106	55
	Hydrocephalus and tubercular meningitis	1	..	2	2	3	..	2	..	..	..	1	..
	Rachitis	..	..	..	..	..	..	..	..	..	..	..	..
	Other tubercular diseases	1	..	..	..	1	..	..	1	..	3	..	..
	Total tubercular diseases	416	290	346	169	287	142	193	115	142	81	107	55
	Total constitutional class	438	341	372	236	321	223	241	181	187	152	153	120
1	*Nervous.*												
	Meningitis	11	9	10	6	7	6	13	3	3	7	4	3
	Encephalitis	1	..	1	..	..	..	..	..	..	..	..	..
	Softening of brain	1	..	5	1	3	2	3	4	4	5	6	2
	Apoplexy	21	14	31	21	37	31	49	39	37	58	64	38
	Insanity	1	3	6	12	5	11	..	5	4	7	..	4
	Epilepsy	4	4	5	3	..	3	2	3	..	1	..	4
	Convulsions	..	..	..	..	1	..	..	..	..	..	..	..
	Laryngismus stridulus	..	..	..	..	..	..	..	..	..	..	..	..
	Paralysis	18	4	26	5	14	7	9	6	11	1	8	4
	Paraplegia	..	..	..	..	1	1	2	..	..	..	..	1
	Hemiplegia	1	1	..	..	1	1	1	3	4	5	5	4
	Chorea	..	..	1	..	..	..	..	..	..	..	..	..
	Tetanus	..	..	..	..	..	..	..	..	..	..	1	..
	Trismus nascentium	..	..	..	..	..	..	..	..	..	..	..	..
	Myelitis	2	2	..	3	2	..	4	..	5	1	2	2
	Congestion of brain	..	1	1	..	4	..	1	1	..	1	1	1
	Abscess of brain	..	1	..	..	..	..	..	..	..	..	..	..
	Tumor of brain	3	..	..	..	2	..	..	1	..	..	..	..
	Cerebro-spinal sclerosis	..	..	..	1	..	1	1	..	..	..	..	..
	Glosso-labio-laryngeal paralysis	..	..	..	..	..	..	..	..	..	..	..	..
	Menière's disease of vestibule	..	..	..	..	..	..	..	..	..	..	..	..
	Progressive locomotor ataxia	..	..	2	1	4	..	5	..	2	..	..	2
	Tabes dorsalis	..	2	..	..	1	..	1	1	2	1	..	..
	Direct effect of solar heat	4	..	6	..	2	2	5	1	1	1	1	..
	Other nervous diseases	..	2	3	..	..	1	3	1	..	..	3	1
	Total nervous diseases	67	43	97	53	84	66	99	68	73	84	95	66

and Color—Year 1886—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
83	45	33	40	23	22	12	12	2	7	..	2	..	..	..	..	3,149	2,328	5,477
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	422	329	751
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	10	26
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	7	12
83	45	33	40	23	22	12	12	2	7	..	2	..	..	..	..	4,156	3,103	7,259
118	110	52	79	34	40	17	18	4	12	..	2	..	1	..	1	4,513	3,718	8,231
4	2	2	4	..	3	..	1	..	2	..	..	..	..	..	..	490	382	872
1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	11	2	13
8	6	6	8	3	6	3	2	1	2	..	1	..	..	..	..	45	41	86
39	40	38	28	31	27	12	16	6	13	1	2	..	1	..	..	403	359	762
2	6	3	4	2	5	1	4	2	1	1	..	..	1	..	..	40	76	116
2	1	2	1	1	..	2	..	..	..	..	..	..	..	..	..	38	41	79
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	309	233	542
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	4	12
10	6	13	5	4	4	4	6	2	1	..	1	..	..	..	..	139	55	194
..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	5	4	9
3	5	4	5	1	5	4	3	1	..	..	..	..	..	..	..	27	30	57
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	34	22	56
2	1	2	..	1	..	..	..	..	..	..	..	..	..	..	..	24	19	43
1	..	1	3	..	..	3	..	..	..	..	..	..	..	..	..	91	61	152
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	5	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	4	14
1	1	..	..	..	..	..	1	..	..	..	..	..	1	..	..	5	7	12
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
1	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	15	5	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	6	11
1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	11	42
..	2	..	1	..	..	1	1	..	..	..	..	..	..	..	..	10	9	19
77	72	72	59	45	51	30	34	12	19	2	4	..	3	..	..	1,747	1,376	3,123

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Circulatory.*										
	Pericarditis	31	27	26	25	5	2	2	1	..	..
	Aneurism	18	8	34	17	3	4	..	..	..	..
	Hypertrophy of the heart	36	32	50	51	1	2	4	..	..	..
	Valvular disease of the heart	209	223	346	314	8	18	5	5	2	1
	Fatty degeneration of the heart	17	34	52	55	..	1	..	..	..	..
	Endocarditis	35	31	54	44	1	2	4	1	..	..
	Disease of the heart	41	23	50	46	..	2	1	2	..	..
	Angina pectoris	6	7	14	7	1	2	..	..	..	..
	Other circulatory diseases	15	12	14	17	..	..	5	..	..	1
	Total circulatory diseases	408	397	640	576	19	33	21	9	2	1
3	*Respiratory.*										
	Laryngitis	29	15	7	1	..	1	9	2	4	1
	Bronchitis	641	546	231	283	21	24	413	324	122	112
	Pneumonia	1,262	1,014	801	579	49	34	456	353	259	193
	Pleuritis	32	22	37	16	2	1	8	7	..	3
	Pleuritis, hydrothorax	1	1	3	..	1	..	..	1	..	..
	Pleuritis, empyema	7	5	15	6	1	2	1	..	1	1
	Gangrene of lungs	..	..	3	..	..	..	..	..	..	..
	Congestion of lungs	36	26	21	12	..	..	21	10	4	1
	Hæmorrhage of lungs	6	3	3	7	1	2	3	1	..	..
	Abscess of lungs	1	2	..	1	..	..	..	1	..	..
	Emphysema and asthma	4	8	37	44	1	..	1	2	..	..
	Œdema glottidis	2	2	1	1	..	..	1	2	..	..
	Other respiratory diseases	2	..	1	..	..	..	..	..	..	..
	Total respiratory diseases	2,023	1,644	1,160	950	76	64	913	703	390	313
4	*Digestive.*										
	Stomatitis	9	11	..	..	..	..	7	8	2	1
	Pharyngitis	2	..	..	..	..	..	1	..	..	..
	Gastritis	55	63	43	60	1	2	32	29	4	8
	Dyspepsia	14	18	2	6	1	..	9	15	2	..
	Enteritis	111	59	14	21	3	2	72	38	10	5

and Color—Year 1886—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	2	3	1	1	5	5	1	4	5	7	3	4	3	1	9	5	3	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	1	5	2
..	..	1	..	2	..	7	..	2	1	3	2	3	2	5	2	2	5	3	3
1	2	1	3	4	4	13	15	15	21	15	21	34	26	25	16	36	28	22	28
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	2	2	4	3	7
1	..	..	1	1	..	6	2	6	3	1	3	3	5	3	5	7	9	3	6
..	..	..	..	..	..	1	2	1	2	1	3	2	1	3	3	4	3	4	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1
..	..	..	..	..	..	5	1	..	..	..	1	..	..	..	2	1	1	2	1
2	2	4	7	8	5	37	25	26	31	25	37	45	38	39	33	63	57	45	53
6	1	6	1	..	2	25	9	3	4	..	..	..	1	1	..	1	1	1	..
52	36	16	22	9	10	612	504	13	8	1	1	5	5	3	4	11	8	12	9
88	82	38	43	22	25	863	696	45	52	21	18	47	31	79	48	116	68	107	64
1	1	1	..	..	..	10	11	1	1	2	..	2	1	3	1	4	5	7	2
..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..
1	1	..	..	..	1	3	3	..	..	..	..	1	..	..	..	5	1	4	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	3	2	3	..	..	27	17	3	..	..	..	1	3	1	..	1	1	..	..
..	..	..	..	..	..	3	1	..	..	..	..	..	..	1	..	1	1	2	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..
..	1	..	1	..	..	1	4	..	1	..	1	..	..	..	..	2	1	1	..
1	..	..	..	..	..	2	2	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
149	125	63	70	32	38	1,547	1,249	65	66	24	20	56	41	89	54	141	86	135	77
..	1	..	..	..	..	9	10	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
2	1	1	..	1	..	40	38	2	1	..	2	2	2	2	3	4	4	4	2
1	1	..	..	..	1	12	17	1	..	..	..	..	..	..	..	..	..	..	..
2	2	..	..	..	..	84	45	3	1	6	3	7	..	5	4	4	1	2	1

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Circulatory.												
2	Pericarditis	4	3	7	6	4	3	3	4	4	2	3	2
	Aneurism	11	2	14	2	6	6	2	3	3	2	3	3
	Hypertrophy of the heart	2	8	12	5	6	5	3	8	8	9	8	10
	Valvular disease of the heart	39	43	42	39	52	35	68	43	59	41	51	66
	Fatty degeneration of the heart	2	9	4	5	10	5	9	11	7	12	8	9
	Endocarditis	7	2	7	4	8	6	14	8	11	5	5	6
	Disease of the heart	13	4	8	5	7	7	13	6	7	5	7	5
	Angina pectoris	2	1	1	2	4	1	..	..	1	..	3	1
	Other circulatory diseases	2	..	4	1	2	1	2	1	4	4	2	2
	Total circulatory diseases	82	72	99	69	99	69	114	84	104	80	90	104
3	*Respiratory.*												
	Laryngitis	1	..	2	1	1	..	..	..	1	..	..	..
	Bronchitis	12	11	18	15	19	14	18	20	18	20	26	37
	Pneumonia	141	65	99	59	109	56	105	76	88	68	87	68
	Pleuritis	6	1	8	..	7	1	4	3	2	2	5	2
	Pleuritis, hydrothorax	..	..	..	..	..	..	..	..	..	..	1	..
	Pleuritis, empyema	2	..	1	..	2	1	2	1	..	..	..	1
	Gangrene of lungs	..	..	1	..	..	..	..	..	1	..	..	..
	Congestion of lungs	1	2	2	1	3	2	2	..	1	2	7	..
	Hæmorrhage of lungs	1	1	1	..	..	1	..	1	..	2	..	1
	Abscess of lungs	..	..	..	..	1	1	..	..	..	..	..	..
	Emphysema and asthma	3	..	1	2	6	1	3	4	8	5	3	9
	Œdema glottidis	..	..	..	..	..	..	..	..	1	..	..	..
	Other respiratory diseases	..	..	1	..	..	..	1	..	..	..	..	..
	Total respiratory diseases	167	80	134	78	148	77	135	105	120	99	129	118
4	*Digestive.*												
	Stomatitis	..	..	..	..	..	..	..	..	..	..	..	..
	Pharyngitis	..	..	..	..	..	..	..	..	..	..	..	..
	Gastritis	7	8	4	4	5	7	5	6	2	6	7	4
	Dyspepsia	..	..	..	1	..	1	..	1	1	..	1	2
	Enteritis	2	5	2	2	3	4	1	3	1	3	1	..

and Color—Year 1886—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
1	..	2	1	..	2	..	..	..	1	..	..	..	..	..	..	57	52	109
3	1	1	1	1	1	..	..	1	..	..	..	..	..	..	..	52	25	77
12	9	5	6	1	6	3	1	1	1	..	..	..	..	..	..	86	83	169
37	45	20	30	14	18	8	17	5	5	..	..	..	..	..	..	555	537	1,092
11	7	6	7	4	6	1	3	1	1	..	1	..	..	..	..	69	89	158
3	3	2	4	1	1	1	1	1	2	..	..	..	..	..	..	89	75	164
9	12	6	4	3	2	2	1	..	1	..	..	..	..	..	..	91	69	160
3	4	3	..	1	2	2	..	..	..	..	..	..	..	..	..	20	14	34
3	3	1	3	..	4	..	3	1	..	..	1	..	..	..	..	29	29	58
82	84	46	56	25	42	17	26	10	11	..	2	..	..	..	..	1,048	973	2,021
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	36	16	52
29	31	19	31	24	39	15	30	15	27	1	12	1	2	..	1	872	829	1,701
46	66	49	62	36	44	19	31	5	15	1	5	..	1	..	..	2,063	1,593	3,656
5	..	1	3	1	3	..	1	1	1	..	..	..	..	..	..	69	38	107
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	5
..	2	..	..	1	..	1	1	..	..	..	..	..	..	..	..	22	11	33
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
2	2	2	1	1	3	1	3	2	..	..	1	..	..	..	..	57	38	95
..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	9	10	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	4
5	6	4	9	1	5	3	3	..	..	..	1	..	..	..	..	41	52	93
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
89	107	75	106	64	96	39	69	23	43	2	19	1	3	..	1	3,183	2,594	5,777
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	11	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
6	9	4	9	2	7	2	9	..	1	..	1	..	..	..	..	98	123	221
..	1	1	..	..	..	..	1	..	..	..	..	..	..	..	..	16	24	40
..	2	..	4	2	1	2	1	..	..	..	..	..	..	..	..	125	80	205

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*										
	Gastro-enteritis	277	217	30	24	4	4	235	182	31	20
	Hæmatemesis	3	2	2	1	..	..	1	2	..	..
	Peritonitis	61	65	38	52	4	6	8	3	2	2
	Ascites	1	..	..	..	..	..	1	..	..	..
	Ulceration of intestines (perforation?)	5	5	5	2	..	..	1	2	2	..
	Intussusception of intestines	23	10	12	13	..	..	17	6	1	..
	Stricture of intestines	..	1	..	..	..	..	..	..	..	..
	Hernia	16	7	24	34	1	..	9	2	1	..
	Ulcer of the stomach	9	10	17	10	1	..	1	..	1	..
	Hæmorrhage of bowels	3	2	1	..	..	..	3	1	..	..
	Colic	7	5	1	..	..	..	7	4	..	..
	Fatty degeneration of liver	2	4	5	6	..	1	..	..	..	..
	Hypertrophy of liver	1	3	6	11	..	..	1	1	..	..
	Cirrhosis of liver	35	27	121	83	1	1	..	1	..	..
	Abscess of liver	6	2	8	7	1	..	..	..	..	..
	Congestion of liver	2	1	1	3	..	..	1	..	..	..
	Atrophy of liver	1	1	1	2	..	..	..	..	..	..
	Hepatitis	17	11	33	40	..	..	1	2	..	..
	Jaundice	11	8	..	3	..	..	11	7	..	..
	Perforation of vermiform appendix	3	1	5	1	..	..	..	..	..	..
	Leucocythæmia	2	..	..	4	..	..	..	..	..	..
	Stricture of œsophagus	..	..	3	..	..	..	..	..	..	..
	Stricture of rectum	..	..	..	2	..	..	..	..	..	..
	Stricture of pylorus	..	..	1	..	..	..	..	..	..	..
	Gall stones	5	1	..	5	..	..	..	..	..	..
	Retro-pharyngeal abscess	2	1	1	..	..	..	2	1	..	..
	Peri-typhlitic abscess	1	1	2	..	..	..	..	..	..	..
	Other digestive diseases	19	13	15	13	..	..	7	6	..	..
	Total digestive diseases	703	549	391	403	17	16	427	320	56	36
5	*Urinary.*										
	Nephritis	240	145	341	276	23	17	19	8	3	4
	Nephria (Bright's disease)	224	179	403	404	16	11	3	2	2	1
	Uræmia	6	2	6	4	..	..	1	..	..	..

and Color—Year 1886—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
8	7	1	4	3	..	278	213	2	3	..	1	1	..	..	1	2	2	1	3
..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..	..	1	..
..	..	1	3	2	1	13	9	13	4	8	9	11	5	3	8	8	17	5	16
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	3	2	..	..	..	..	..	..	..	..	..	1	1	..
..	..	..	..	1	..	19	6	..	1	1	..	2	..	..	1	1	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	10	2	..	..	..	..	1	..	..	1	2	1	2	2
..	..	1	..	..	..	3	..	..	..	..	2	2	1	..	4	1	3	3	1
..	..	..	..	..	..	3	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	7	4	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	3	2	5	..	9	7
..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	1	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	1	..	..	1	..	2	3	..	2	3	..	..	..	2	1	2	1	4	2
..	1	..	..	..	..	11	8	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	2	..	1	1	..	..	2	..	1	..	..	1
..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	2	1	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	1	..
..	..	1	..	..	..	8	6	..	..	..	..	..	1	1	1	1	2	5	1
13	14	5	7	10	2	511	369	25	12	21	18	22	10	18	25	34	34	40	40
3	1	5	4	3	4	33	21	6	4	4	6	11	8	26	19	35	29	47	24
2	4	1	..	1	2	9	9	2	5	4	3	10	6	17	18	28	36	41	39
..	..	..	..	..	1	1	1	..	..	1	..	..	..	..	2	..	1	..	1

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*												
	Gastro-enteritis	1	1	2	2	1	3	3	5	4	1	4	1
	Hæmatemesis	..	..	..	..	..	..	..	..	1	..	1	..
	Peritonitis	2	10	4	5	7	5	1	9	9	5	7	6
	Ascites	..	..	..	..	..	..	..	..	..	..	..	..
	Ulceration of intestines (perforation?)	..	..	..	1	..	1	2	..	1	2	2	..
	Intussusception of intestines	1	1	..	..	1	2	5	2	..	2	2	2
	Stricture of intestines	..	..	..	..	..	..	..	..	..	..	..	..
	Hernia	1	..	1	3	4	5	3	5	5	5	3	6
	Ulcer of the stomach	..	1	2	1	5	1	4	..	2	2	2	..
	Hæmorrhage of bowels	..	..	1	1	..	..	..	..	..	..	..	..
	Colic	..	..	1	..	..	..	..	..	..	..	..	..
	Fatty degeneration of liver	..	1	2	1	..	5	1	1	2	..	..	..
	Hypertrophy of liver	..	4	1	3	..	2	1	1	..	1	2	2
	Cirrhosis of liver	15	13	24	12	28	17	23	11	19	13	13	12
	Abscess of liver	3	2	2	..	3	4	..	1	3	1	..	..
	Congestion of liver	..	..	..	1	1	..	1	..	..	1	..	..
	Atrophy of liver	..	..	..	..	..	..	1	..	..	1	..	..
	Hepatitis	8	3	3	7	4	6	8	2	7	9	1	3
	Jaundice	..	..	..	..	..	..	..	1	..	..	..	..
	Perforation of vermiform appendix	1	..	1	..	..	..	..	..	..	..	..	..
	Leucocythæmia	..	1	..	..	..	..	..	1	..	..	..	1
	Stricture of œsophagus	..	..	..	..	..	..	3	..	..	..	..	..
	Stricture of rectum	..	1	..	..	..	..	..	..	..	..	..	..
	Stricture of pylorus	..	..	..	..	..	..	1	..	..	..	..	..
	Gall stones	1	..	..	1	..	2	2	..	..	..	..	2
	Retro-pharyngeal abscess	..	..	..	..	..	..	..	..	..	..	..	..
	Peri-typhlitic abscess	..	..	..	..	1	..	..	..	..	..	..	..
	Other digestive diseases	..	2	1	1	5	..	1	5	..	1	2	1
	Total digestive diseases	42	53	51	46	68	65	66	54	57	53	48	42
5	*Urinary.*												
	Nephritis	59	39	45	43	75	36	54	42	45	27	58	49
	Nephria (Bright's disease)	50	44	72	56	75	61	64	68	63	51	64	49
	Uræmia	1	..	4	..	1	1	..	..	2	..	..	..

and Color— Year 1886—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
2	1	2	1	3	..	1	1	..	2	..	..	..	..	..	..	307	241	548
1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	5	3	8
2	2	1	3	1	1	3	1	1	2	..	..	..	..	..	..	99	117	216
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	10	7	17
2	2	..	2	..	1	..	..	..	..	..	..	..	..	..	..	35	23	58
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	1
3	2	2	3	2	3	1	2	..	1	..	..	..	..	..	..	40	41	81
..	2	1	2	..	..	1	..	..	..	..	..	..	..	..	..	26	20	46
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	2	6
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	8	5	13
..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	7	10	17
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	14	21
8	8	4	8	3	5	1	1	..	..	..	..	1	..	..	..	156	110	266
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	14	9	23
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	3	4	7
..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	2	3	5
3	6	3	3	..	3	..	..	..	..	..	..	..	..	..	..	50	51	101
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	11	11	22
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	2	10
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2	4	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	5	6	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	4
4	2	2	2	2	1	1	..	1	..	..	..	..	..	..	..	34	26	60
32	38	21	43	15	25	14	17	9	6	..	1	1	..	..	..	1,094	952	2,046
38	24	16	24	20	13	3	13	4	1	1	1	..	..	..	..	581	423	1,004
55	55	40	45	19	25	9	7	4	3	1	2	..	1	..	..	627	583	1,210
1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	12	6	18

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
5	*Urinary.*										
	Diabetes	18	19	29	16	..	..	..	..	..	..
	Calculus	3	..	7	3	1	..	1	..	..	..
	Cystitis	17	7	27	7	..	..	..	..	..	..
	Prostatitis	1	..	4	1	..	..	..	..	..	..
	Hypertrophy of prostate	8	..	13	..	..	..	..	..	..	..
	Stricture of urethra	7	..	7	..	..	..	..	..	..	..
	Other urinary diseases	3	..	4	..	..	..	..	..	1	..
	Total urinary diseases	527	352	841	713	40	28	24	10	6	5
6	*Generative.*										
	Ovarian tumor	..	29	..	25	..	1	..	..	..	..
	Metritis and metro-peritonitis (not puerperal)	..	3	..	4	..	1	..	..	..	..
	Fibroid uterine tumor	..	10	..	9	..	2	..	..	..	..
	Other generative diseases	..	13	..	20	..	1	..	..	..	..
	Total generative diseases	..	55	..	58	..	5	..	..	..	..
7	*Locomotory and Osseous.*										
	Arthritis	3	1	4	3	..	..	..	..	..	..
	Osteo-myelitis	3	..	..	..	..	..	..	..	..	..
	Necrosis	11	5	4	4	1	..	..	..	..	..
	Spinal disease	22	14	14	5	..	1	2	..	..	..
	Hip disease	11	7	1	3	..	..	..	..	..	..
	Other locomotory and osseous diseases	11	4	9	4	1	..	..	1	..	1
	Total locomotory and osseous	61	31	32	19	2	1	2	1	..	1
8	*Integumentary.*										
	Abscess	16	20	8	8	..	2	9	10	..	1
	Pemphigus	1	3	..	..	..	..	1	3	..	..
	Eczema	8	5	..	1	..	..	6	5	..	..
	Otitis	18	14	10	5	..	..	5	3	3	3
	Ophthalmia	1	..	1	..	..	..	1	..	..	..
	Ulcer	4	1	8	9	..	1	..	..	..	..

and Color—Year 1886—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	1	2	1	3	2	..	1	4	1	4	3
..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	1	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	1	..
5	5	6	4	4	7	45	31	8	11	11	10	26	16	43	41	71	67	97	68
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	4	..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	2	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	3
..	..	..	..	..	1	..	..	..	..	..	2	..	3	..	5	..	7	..	5
..	..	..	..	..	..	..	..	..	..	..	2	..	4	..	9	..	15	..	13
..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	2	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	2	..	1	1	1	..	3	..	..	3	2	2
2	..	3	..	2	1	9	1	3	6	2	3	5	1	2	2	3	1	..	1
..	..	..	2	1	..	1	2	3	3	3	1	2	1	1	1	1	1	1	..
2	..	..	..	3	..	5	2	5	..	..	1	..	..	1	1	1	..	..	..
4	..	3	2	6	1	15	5	13	9	8	6	11	2	7	4	5	5	3	3
1	..	1	1	..	..	11	12	..	..	..	..	3	..	3	1	1	2	1	2
..	..	..	..	..	..	1	3	..	..	..	..	..	..	..	..	..	..	..	..
1	..	1	..	..	..	8	5	..	..	..	..	..	..	..	..	..	..	..	..
1	1	3	2	1	2	13	11	1	2	..	2	..	..	4	2	1	..	2	1
1	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
5	*Urinary.*												
	Diabetes	4	2	1	..	4	3	5	5	7	2	5	7
	Calculus	..	1	..	1	2	1	3	..	1	..	1	..
	Cystitis	2	..	..	1	..	..	2	..	6	1	6	1
	Prostatitis	..	..	..	..	..	..	..	..	..	..	2	..
	Hypertrophy of prostate	..	..	..	..	..	..	..	..	2	..	2	..
	Stricture of urethra	2	..	..	..	..	..	2	..	2	..	2	..
	Other urinary diseases	..	..	3	..	..	..	1	..	..	..	..	..
	Total urinary diseases	118	86	125	101	157	102	131	115	128	81	140	106
6	*Generative.*												
	Ovarian tumor	..	11	..	8	..	7	..	6	..	3	..	2
	Metritis and metro-peritonitis (not puerperal)	..	2	..	..	..	..	..	..	..	..	..	..
	Fibroid uterine tumor	..	2	..	4	..	3	..	1	..	2	..	..
	Other generative diseases	..	3	..	6	..	2	..	..	..	..	..	..
	Total generative diseases	..	18	..	18	..	12	..	7	..	5	..	2
7	*Locomotory and Osseous.*												
	Arthritis	..	..	2	..	1	..	1	..	..	..	1	1
	Osteo-myelitis	..	..	..	..	..	..	..	..	..	..	..	..
	Necrosis	1	1	..	..	2	..	..	..	1	..	..	..
	Spinal disease	2	..	2	1	2	1	3	1	2	..	1	..
	Hip disease	..	..	..	1	..	..	..	..	..	..	..	..
	Other locomotory and osseous diseases	3	..	3	..	1	..	..	..	1	1	..	1
	Total locomotory and osseous	6	1	7	2	6	1	4	1	4	1	2	2
8	*Integumentary.*												
	Abscess	..	3	1	3	1	..	2	2	1	1	..	1
	Pemphigus	..	..	..	..	..	..	..	..	..	..	..	..
	Eczema	..	..	..	..	..	..	..	..	..	..	..	..
	Otitis	1	1	1	..	1	..	2	..	1	..	..	..
	Ophthalmia	..	..	..	..	..	..	..	..	..	..	..	..
	Ulcer	..	..	..	1	..	1	..	1	..	2	3	1

and Color—Year 1886—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
3	2	3	2	2	3	..	..	..	..	..	..	..	..	..	..	47	35	82
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	3	13
7	2	5	1	9	4	5	..	..	2	..	..	..	..	..	..	44	14	58
1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	5	1	6
3	..	8	..	3	..	..	..	3	..	..	..	..	..	..	..	21	..	21
..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	14	..	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	..	7
108	83	74	72	56	45	17	20	11	6	2	3	..	1	..	..	1,368	1,065	2,433
..	3	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	54	54
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	7
..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	19	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	33	33
..	3	..	1	..	1	..	3	..	..	..	..	..	..	..	..	..	113	113
..	2	..	..	..	1	..	..	..	..	..	..	..	..	..	..	7	4	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
1	..	1	..	..	2	..	..	..	..	..	..	..	..	..	..	15	9	24
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	36	19	55
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	10	22
..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	20	8	28
1	4	1	..	..	4	..	..	..	..	..	..	..	..	..	..	93	50	143
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	24	28	52
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	4
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	8	6	14
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	28	19	47
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
1	1	1	1	3	2	1	..	1	..	..	..	..	..	..	..	12	10	22

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
8	*Integumentary.*										
	Gangrene of feet	..	..	2	..	..	..	..	..	..	..
	Erythema	2	..	..	..	..	..	2	..	..	..
	Psoriasis	1	..	..	..	..	..	..	..	..	..
	Herpes	1	..	..	..	..	..	1	..	..	..
	Other integumentary diseases	3	3	2	7	1	..	1	..	..	1
	Total integumentary diseases	55	46	31	30	1	3	26	21	3	5
	Total local class	4,926	3,935	3,693	3,264	191	177	1,974	1,462	616	484
1	*Children.*										
	Premature birth	406	326	..	..	5	5	406	326	..	..
	Preternatural birth	55	36	..	..	1	1	55	36	..	..
	Cyanosis	82	48	..	..	1	1	79	48	1	..
	Atelectasis pulmonum	99	64	..	..	2	1	99	64	..	..
	Spina bifida	14	14	..	..	..	..	14	14	..	..
	Imperforate anus	11	4	..	..	..	..	11	4	..	..
	Other malformations	16	9	..	..	1	2	16	9	..	..
	Hæmorrhage of umbilicus	15	13	..	..	4	1	15	13	..	..
	Cleft palate	5	1	..	..	..	..	5	1	..	..
	Total developmental diseases of children	703	515	..	..	14	11	700	515	1	..
2	*Women.*										
	Childbirth	..	11	..	27	..	..	..	..	..	..
	Flooding	..	11	..	13	..	..	..	..	..	..
	Puerperal metritis and metro-peritonitis	..	28	..	60	..	1	..	..	..	..
	Puerperal septicæmia	..	22	..	35	..	1	..	..	..	..
	Puerperal pyæmia	..	1	..	2	..	..	..	..	..	..
	Puerperal convulsions	..	23	..	8	..	2	..	..	..	..
	Puerperal mania	..	6	..	7	..	..	..	..	..	..
	Puerperal pelvic abscess and cellulitis	..	..	..	2	..	..	..	..	..	..
	Puerperal uræmia	..	5	..	6	..	..	..	..	..	..
	Miscarriage and abortion	..	17	..	20	..	..	..	..	..	..

and Color—Year 1886—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	1	2	..	..	..	..	1	..	..	1	..	..	..	..
4	2	5	3	1	2	39	33	2	2	..	2	4	..	7	4	3	2	3	3
229	194	107	121	74	67	3,000	2,328	175	166	100	107	188	129	240	185	365	293	361	289
..	..	..	..	..	..	406	326	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	55	36	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	81	48	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	99	64	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	14	14	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	11	4	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	16	9	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	15	13	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	5	1	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	702	515	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	5	..	10	..	6
..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2	..	7	..	6
..	..	..	..	..	..	..	..	..	..	..	..	..	7	..	27	..	24	..	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	..	17	..	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..
..	..	..	..	..	..	..	..	..	..				4	..	8	..	10	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	2	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	5	..	10	..	10

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
8	*Integumentary.*												
	Gangrene of feet	..	..	..	..	..	..	1	..	..	..	..	..
	Erythema	..	..	..	..	..	..	..	..	..	..	..	..
	Psoriasis	1	..	..	..	..	..	..	..	..	..	..	..
	Herpes	..	..	..	..	..	..	..	..	..	..	..	..
	Other integumentary diseases	..	..	..	1	1	2	1	..	..	1	..	..
	Total integumentary diseases	2	4	2	5	3	3	6	3	2	4	3	2
	Total local class	484	357	515	372	565	395	555	437	488	407	507	442
1	*Children.*												
	Premature birth	..	..	..	..	..	..	..	..	..	..	..	..
	Preternatural birth	..	..	..	..	..	..	..	..	..	..	..	..
	Cyanosis	..	..	..	..	..	..	..	..	..	..	..	..
	Atelectasis pulmonum	..	..	..	..	..	..	..	..	..	..	..	..
	Spina bifida	..	..	..	..	..	..	..	..	..	..	..	..
	Imperforate anus	..	..	..	..	..	..	..	..	..	..	..	..
	Other malformations	..	..	..	..	..	..	..	..	..	..	..	..
	Hæmorrhage of umbilicus	..	..	..	..	..	..	..	..	..	..	..	..
	Cleft palate	..	..	..	..	..	..	..	..	..	..	..	..
	Total developmental diseases of children	..	..	..	..	..	..	..	..	..	..	..	..
2	*Women.*												
	Childbirth	..	11	..	5	..	..	..	..	..	..	..	..
	Flooding	..	4	..	3	..	..	..	..	..	..	..	..
	Puerperal metritis and metro-peritonitis	..	12	..	3	..	..	..	..	..	..	..	..
	Puerperal septicæmia	..	7	..	1	..	..	..	..	..	..	..	..
	Puerperal pyæmia	..	1	..	..	..	..	..	..	..	..	..	..
	Puerperal convulsions	..	3	..	2	..	..	..	..	..	..	..	..
	Puerperal mania	..	2	..	1	..	..	..	..	..	..	..	..
	Puerperal pelvic abscess and cellulitis	..	1	..	..	..	..	..	..	..	..	..	..
	Puerperal uræmia	..	4	..	3	..	..	..	..	..	..	..	..
	Miscarriage and abortion	..	6	..	5	..	..	..	..	..	..	..	..

and Color—Year 1886—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
1	..	..	1	..	1	..	1	..	..	..	..	..	..	..	..	5	10	15
3	2	2	2	3	3	1	2	1	..	..	..	..	..	..	..	86	76	162
392	393	291	339	208	267	118	171	59	85	6	29	2	7	..	1	8,619	7,199	15,818
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	406	326	732
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	55	36	91
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	82	48	130
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	99	64	163
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	14	28
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	4	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	9	25
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	13	28
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	703	515	1,218
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	38	38
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	24	24
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	88	88
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	57	57
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	31
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	13
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	37	37

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Women.*										
	Phlegmasia dolens	..	1	..	..	..	..	..	..	..	..
	Placenta prævia	..	7	..	10	..	..	..	..	..	..
	Other developmental diseases of women	..	5	..	6	..	..	..	..	..	..
	Total developmental diseases of women	..	137	..	196	..	4	..	..	..	..
3	*Age.*										
	Senile gangrene	5	4	10	9	2	2	..	..	..	..
	Senile debility (old age)	32	71	123	256	1	12	..	..	..	..
	Total diseases of old age	37	75	133	265	3	14	..	..	..	..
4	*Nutrition.*										
	Atrophy	19	10	..	..	..	..	19	9	..	1
	Asthenia (debility)	50	41	1	..	2	2	51	40	..	..
	Total diseases of nutrition	69	51	1	..	2	2	70	49	..	1
	Total developmental class	809	778	134	461	19	31	770	564	1	1
1	*Accident and Negligence.*										
	Fractures and contusions	54	7	100	19	2	..	..	2	..	..
	Wounds by gunshot	8	2	8	1	..	..	..	..	..	..
	Wounds, others	1	..	3	..	..	..	..	..	..	..
	Killed by vehicles in the street	35	8	37	3	2	..	..	..	1	..
	Fall	117	45	174	49	2	2	3	6	4	7
	Burns and scalds	29	36	22	21	..	1	3	6	7	1
	Poison by laudanum	..	..	1	..	..	..	..	..	..	..
	Poison by lead	4	..	6	..	..	..	..	..	..	..
	Poison by carbolic acid	1	1	..	1	..	..	1	..	..	..
	Poison by hydrate of chloral	..	1	..	..	..	..	..	..	..	..
	Poison by opium	1	..	2	..	..	..	..	..	..	..
	Poison by other means	4	3	6	7	..	..	1	2	..	1
	Suffocation (asphyxia by)	21	21	17	15	..	..	9	17	1	2

and Color—Year 1886—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	3	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	7	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	16	..	76	..	91	..	68
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	19	10	..	..	..	..	..	..	..	..	..	..	..	.
..	..	..	..	..	..	51	40	..	..	..	..	..	..	..	..	..	..	..	.
..	..	..	..	..	..	70	50	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	772	565	..	..	1	..	..	16	..	76	..	91	..	68
..	..	3	..	..	1	3	3	3	3	9	1	6	1	18	1	20	2	16	2
..	..	..	..	..	..	..	..	1	..	3	1	5	..	1	1	..	1	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..
1	1	2	1	3	2	7	4	11	3	5	..	3	1	1	..	7	..	7	..
11	5	5	7	4	2	27	27	12	10	12	1	9	2	22	2	27	2	18	3
8	3	5	2	2	5	25	17	3	4	1	..	..	7	1	5	2	4	2	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	2	..	2	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	1	3	..	..	..	..	..	2	2	..	..	2	2	..
1	2	..	1	..	1	11	23	1	1	1	..	1	3	1	2	5	..	3	1

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Women.*												
	Phlegmasia dolens	..	..	..	..	..	..	..	..	..	..	..	..
	Placenta prævia	..	4	..	3	..	..	..	..	..	..	..	..
	Other developmental diseases of women	..	1	..	..	..	..	..	..	..	..	..	..
	Total developmental diseases of women	..	56	..	26	..	..	..	..	..	..	..	..
3	*Age.*												
	Senile gangrene	..	..	..	..	..	..	..	1	2	2	2	1
	Senile debility (old age)	1	..	..	..	..	..	1	6	3	7	10	16
	Total diseases of old age	1	..	..	..	..	..	1	7	5	9	12	17
4	*Nutrition.*												
	Atrophy	..	..	..	..	..	..	..	..	..	..	..	..
	Asthenia (debility)	..	1	..	..	..	..	..	..	..	..	..	..
	Total diseases of nutrition	..	1	..	..	..	..	..	..	..	..	..	..
	Total developmental class	1	57	..	26	..	..	1	7	5	9	12	17
1	*Accident and Negligence.*												
	Fractures and contusions	25	..	14	..	11	1	12	2	5	1	5	4
	Wounds by gunshot	2	..	1	..	..	..	1	..	1	..	..	..
	Wounds, others	..	..	..	..	1	..	..	..	..	..	..	..
	Killed by vehicles in the street	5	..	8	..	6	1	5	..	3	..	1	..
	Fall	42	5	27	8	29	7	13	3	23	5	16	6
	Burns and scalds	3	1	4	..	1	3	3	5	3	1	1	..
	Poison by laudanum	..	..	..	..	..	..	..	..	..	..	..	..
	Poison by lead	..	..	1	..	2	..	1	..	..	..	..	..
	Poison by carbolic acid	..	..	..	..	..	..	..	1	..	..	..	..
	Poison by hydrate of chloral	..	..	..	1	..	..	..	..	..	..	..	..
	Poison by opium	..	..	..	..	1	..	1	..	..	..	..	..
	Poison by other means	..	..	1	1	1	..	1	1	1	..	..	..
	Suffocation (asphyxia by)	2	..	4	1	4	..	1	3	3	..	..	..

and Color—Year 1886—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17	17
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	333	333
3	2	2	3	2	2	2	..	2	1	..	1	..	..	..	..	15	13	28
14	28	32	51	40	65	23	69	20	54	7	18	3	8	1	5	155	327	482
17	30	34	54	42	67	25	69	22	55	7	19	3	8	1	5	170	340	510
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	19	10	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	51	41	92
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	70	51	121
17	30	34	54	42	67	25	69	22	55	7	19	3	8	1	5	943	1,239	2,182
4	..	..	2	1	2	1	..	..	..	..	..	1	1	..	..	154	26	180
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	3	19
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	4
1	2	1	..	..	..	..	..	..	..	..	..	1	..	..	..	72	11	83
6	6	3	1	3	2	1	2	1	2	..	..	..	..	..	..	291	94	385
1	4	1	2	..	..	..	..	..	..	..	..	..	..	..	..	51	57	108
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	..	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	10	20
..	1	..	..	..	1	..	..	1	..	..	..	..	..	..	..	38	36	74

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Accident and Negligence.*										
	Drowning	46	7	125	5	..	..	1	..	1	1
	Neglect and exposure	3	2	4	..	..	..	2	2	..	..
	Surgical operations	19	27	10	34	..	2	7	2	..	..
	Self-produced abortion	..	3	..	..	..	1	..	..	..	..
	Total accident and negligence	343	163	515	155	6	6	27	37	14	12
2	*Homicide.*										
	By gunshot	7	3	7	1	..	..	..	..	..	..
	By blows	6	..	7	3	..	..	..	..	..	..
	By cut, stab	13	..	7	..	1	..	..	..	..	..
	By criminal abortion	..	2	..	1	..	..	..	..	..	..
	By other means	2	..	3	1	..	..	..	1	..	..
	Total homicidal deaths	28	5	24	6	1	..	..	1	..	..
3	*Suicide.*										
	By poisons	7	9	27	14	..	..	..	..	..	..
	By drowning	2	1	8	5	..	..	..	..	..	..
	By hanging	5	..	25	8	..	..	..	..	..	..
	By leap	3	2	6	4	..	1	..	..	..	..
	By gunshot	20	2	38	3	1	..	..	..	..	..
	By cutting	2	1	24	1	..	..	..	..	..	..
	By illuminating gas	2	..	3	1	..	..	..	..	..	..
	Total suicidal deaths	41	15	131	36	1	1	..	..	..	..
4	*Execution.*										
	Name of criminal executed:										
	Miguel Chacon, July 9	..	..	1	..	1	..	..	..	..	..
	Total violent deaths	412	183	671	197	9	7	27	38	14	12
	Total deaths at all ages and from all causes	13,054	10,970	7,215	6,112	429	368	5,529	4,301	1,712	1,476

and Color—Year 1886—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	..	..	..	..	1	3	2	14	2	2	..	12	1	7	1	18	2	23	..
..	..	..	..	..	..	2	2	..	..	..	..	..	..	..	..	..	..	..	..
1	..	1	..	1	..	10	2	1	..	..	1	..	1	..	7	4	8	1	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..
23	11	16	11	10	12	90	83	46	23	34	4	36	18	57	20	85	23	75	22
..	..	..	..	..	..	..	..	..	..	1	..	1	1	4	..	1	2	2	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	5	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	2	..	6	..	4	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	3	..
..	..	..	..	..	..	..	1	..	..	2	..	3	1	11	3	10	2	6	..
..	..	..	..	..	..	..	..	..	..	..	..	..	5	2	4	3	3	3	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	2	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	7	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	1	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	7	..	10	2	8	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	4	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	1	5	12	5	19	8	23	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
23	11	16	11	10	12	90	84	46	23	36	4	40	24	81	28	114	33	104	30
788	726	493	460	326	310	8,848	7,273	634	584	219	207	408	388	764	724	1,045	916	985	766

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Accident and Negligence.*												
	Drowning	31	..	19	1	15	..	12	1	4	..	5	1
	Neglect and exposure	..	..	1	..	..	..	3	..	..	..	..	..
	Surgical operations	2	6	3	4	2	10	2	4	..	1	4	3
	Self-produced abortion	..	1	..	..	..	..	..	..	..	..	..	..
	Total accident and negligence	112	13	83	16	73	22	55	20	43	8	32	14
2	*Homicide.*												
	By gunshot	3	..	1	..	..	1	..	..	..	..	..	..
	By blows	..	1	2	1	2	..	2	..	..	..	..	1
	By cut, stab	2	..	..	..	3	..	1	..	..	..	..	..
	By criminal abortion	..	..	..	..	..	..	..	..	..	..	..	..
	By other means	..	..	1	..	..	..	1	..	..	..	..	..
	Total homicidal deaths	5	1	4	1	5	1	4	..	..	..	..	1
3	*Suicide.*												
	By poisons	3	1	4	..	8	1	2	1	2	1	3	1
	By drowning	..	..	1	1	1	1	1	1	..	..	1	1
	By hanging	1	1	2	1	2	1	4	1	6	3	2	..
	By leap	5	..	1	1	..	1	1	1	..	..	..	..
	By gunshot	3	..	8	1	4	..	6	..	5	1	3	..
	By cutting	6	..	5	..	2	1	1	1	4	..	2	..
	By illuminating gas	1	..	..	..	1	..	2	..	1	..	..	..
	Total suicidal deaths	19	2	21	4	18	5	17	5	18	5	11	2
4	*Execution.*												
	Name of criminal executed:												
	Miguel Chacon, July 9	..	..	..	..	..	..	..	..	..	..	..	..
	Total violent deaths	136	16	108	21	96	28	76	25	61	13	43	17
	Total deaths at all ages and from all causes	1,165	816	1,074	697	1,045	689	932	697	789	629	754	645

and Color—Year 1886—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
2	1	2	..	2	..	..	..	..	..	..	..	..	..	..	..	171	12	183
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	2	9
..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	29	61	90
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
18	16	7	6	6	5	2	2	2	2	..	..	2	1	..	..	858	318	1,176
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	14	4	18
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	3	16
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	6
1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	52	11	63
2	1	1	..	1	..	..	..	..	..	..	..	..	..	..	..	34	23	57
1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	10	6	16
3	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	30	8	38
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	6	15
..	..	2	..	1	..	..	..	..	..	..	..	..	..	..	..	58	5	63
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	26	2	28
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	6
6	1	5	..	2	..	..	..	..	1	..	..	..	..	..	..	172	51	223
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
25	17	12	6	8	5	2	2	3	3	..	..	2	1	..	..	1,083	380	1,463
588	591	416	519	311	416	177	279	94	168	13	54	7	17	1	7	20,269	17,082	37,351

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Miasmatic.*										
	Small-pox and varioloid	47	33	15	4	13	2	11	7	4	6
	Varicella	3	2	..	..	..	..	3	1	..	..
	Measles	358	365	29	15	4	4	119	110	138	140
	Scarlatina	262	264	35	28	..	3	13	12	57	58
	Diphtheria	1,065	969	73	60	6	10	89	62	245	281
	Croup	437	387	42	23	4	3	75	37	138	121
	Quinsy (tonsilitis, angina maligna, etc.)	11	9	1	1	..	..	4	2	2	3
	Parotitis	2	9	..	..	..	..	1	2	..	4
	Whooping-cough	84	97	3	4	2	3	49	48	23	30
	Erysipelas	57	41	23	19	..	1	35	30	5	6
	Pyæmia	2	..	1	1	..	..	..	..	..	..
	Carbuncle	4	..	15	5	..	..	..	..	..	..
	Dysentery	83	80	70	58	1	..	37	32	25	19
	Diarrhœa	1,519	1,309	103	108	30	30	1,273	1,055	204	189
	Cholera (Asiatic)	..	..	..	..	..	..	..	..	..	..
	Cholera morbus	9	13	19	23	1	..	..	..	..	..
	Entero-colitis	161	179	15	13	2	2	127	142	29	26
	Cerebro-spinal fever	95	81	16	11	..	2	28	19	18	22
	Typhoid fever	86	68	112	57	5	1	1	..	1	2
	Continued fever	2	3	..	3	..	..	1	..	..	1
	Remittent fever	36	47	13	21	1	..	8	5	8	7
	Intermittent fever	33	30	22	21	1	1	6	4	6	6
	Typho-malarial fever	16	28	21	33	1	1	..	..	..	..
	Congestive (malignant intermittent)	3	..	..	1	..	..	1	..	..	..
	Congestive chills	3	1	8	3	..	1	..	..	..	..
	Puerperal fever (other puerperal diseases, see order of women)	..	15	..	30	..	..	..	..	..	..
	Total miasmatic diseases	4,378	4,030	636	542	71	64	1,881	1,568	903	821
2	*Enthetic or Inoculated.*										
	Syphilis	73	55	12	4	5	1	52	40	7	3
	Malignant pustule	2	..	..	..	..	..	..	..	..	..
	Hydrophobia	1	..	..	..	..	..	..	..	..	..
	Total enthetic or inoculated diseases	76	55	12	4	5	1	52	40	7	3

and Color—Year 1887.

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	5	1	4	2	..	22	22	4	8	..	..	3	..	11	4	9	..	2	1
..	..	..	1	..	..	3	2	..	..	..	..	..	..	..	..	..	..	..	..
65	66	32	25	12	10	366	351	15	21	1	1	1	..	2	4	2	1	..	..
73	62	59	57	37	32	239	221	47	63	5	3	2	2	2	1	2	..	..	..
231	217	186	199	134	107	885	766	207	210	22	19	6	13	9	5	1	1	3	6
103	89	68	72	50	42	434	361	42	46	1	1	..	..	..	1	1	..	..	1
1	..	3	1	..	..	10	6	..	4	2	..	..	..	..	..	..	..	..	..
..	..	1	1	..	..	2	7	..	1	..	..	..	..	..	1	..	..	..	..
9	9	2	5	2	4	85	96	2	3	..	1	..	..	..	..	..	1	..	..
1	..	..	1	..	1	41	38	..	1	1	..	2	1	3	..	3	1	1	4
..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	3	4	4	..	1	67	59	7	2	1	2	3	4	2	3	10	5	8	2
21	27	10	6	5	3	1,513	1,280	8	7	3	2	2	2	3	8	2	12	5	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	1	1	..	..	2	2	1	..	2	1	3	5
4	5	..	..	..	..	160	173	6	3	..	..	..	..	1	2	..	2	1	1
11	7	8	5	6	6	71	59	10	17	7	6	4	3	4	1	3	1	2	..
3	1	1	3	..	2	6	8	5	8	6	8	28	16	46	19	42	19	23	18
..	..	..	..	1	..	2	1	..	1	..	..	..	..	..	..	..	..	..	..
3	7	2	3	2	3	23	25	5	10	2	2	1	2	2	2	3	4	1	6
1	6	4	3	4	2	21	21	4	4	5	1	1	..	3	3	3	..	1	2
..	1	1	3	..	3	1	7	2	5	2	5	2	2	3	5	3	13	8	4
1	..	..	..	..	..	2	..	..	..	1	..	..	1	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	4	..	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	12	..	17	..	7
532	505	382	393	255	216	3,953	3,503	365	415	60	51	58	50	93	71	90	78	60	63
..	2	..	..	..	..	59	45	1	..	..	..	1	..	3	4	5	4	4	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	2	..	..	..	..	59	45	1	..	..	..	1	..	4	4	6	4	4	2

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Miasmatic.*												
	Small-pox and varioloid	4	..	..	..	2	..	3	2	1	..	..	..
	Varicella	..	..	..	..	..	..	..	..	..	..	..	..
	Measles	..	1	..	..	..	..	..	1	..	..	..	..
	Scarlatina	..	1	..	..	..	..	..	1	..	..	..	..
	Diphtheria	2	1	1	4	..	1	..	1	..	..	2	..
	Croup	1	..	..	..	..	..	..	..	..	..	..	..
	Quinsy (tonsilitis, angina maligna, etc.)	..	..	..	..	..	..	..	..	..	..	..	..
	Parotitis	..	..	..	..	..	..	..	..	..	..	..	..
	Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..
	Erysipelas	2	1	5	2	8	3	7	3	..	..	3	3
	Pyæmia	..	..	..	..	1	1	..	..	..	..	..	..
	Carbuncle	..	..	..	..	1	2	5	..	6	2	3	..
	Dysentery	3	8	5	4	13	4	4	2	3	8	7	8
	Diarrhœa	10	3	9	4	4	4	8	5	7	15	9	19
	Cholera (Asiatic)	..	..	..	..	..	..	..	..	..	..	..	..
	Cholera morbus	3	..	3	2	3	2	4	6	2	1	2	4
	Entero-colitis	1	1	1	..	..	1	..	1	1	3	1	3
	Cerebro-spinal fever	4	1	1	..	3	2	1	..	..	2	..	..
	Typhoid fever	15	6	6	3	3	4	8	8	..	5	6	..
	Continued fever	..	..	..	..	..	2	..	..	..	..	..	..
	Remittent fever	1	6	..	1	3	1	..	1	2	2	..	2
	Intermittent fever	1	2	..	2	3	1	2	1	1	6	1	2
	Typho-malarial fever	1	2	3	4	3	6	2	1	2	..	1	1
	Congestive (malignant intermittent)	..	..	..	..	..	..	..	..	..	..	..	..
	Congestive chills	..	..	1	1	2	1	..	..	1	..	..	..
	Puerperal fever (other puerperal diseases, see order of women)	..	4	..	2	..	..	..	1	..	..	..	..
	Total miasmatic diseases	48	37	35	29	49	35	44	36	26	44	35	42
2	*Enthetic or Inoculated.*												
	Syphilis	3	1	4	1	..	1	..	..	2	..	3	..
	Malignant pustule	..	..	..	..	..	..	..	..	..	..	1	..
	Hydrophobia	..	..	..	..	..	..	..	..	..	..	..	..
	Total enthetic or inoculated diseases	3	1	4	1	..	1	..	..	2	..	4	..

and Color—Year 1887—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	62	37	99
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	387	380	767
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	297	292	589
..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1,138	1,029	2,167
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	479	410	889
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	10	22
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	9	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	87	101	188
3	2	..	..	1	1	..	..	..	..	..	..	..	..	..	..	80	60	140
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	4
2	..	..	..	1	1	..	..	1	..	..	..	..	..	..	..	19	5	24
10	6	6	9	3	4	..	5	1	2	..	1	..	..	..	..	153	138	291
5	14	10	9	8	15	8	6	8	5	..	1	..	1	..	..	1,622	1,417	3,039
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	4	..	3	2	3	..	1	..	1	..	..	..	..	..	..	28	36	64
..	1	2	..	2	1	..	..	..	..	..	..	..	..	..	..	176	192	368
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	111	92	203
4	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	198	125	323
..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	2	6	8
3	1	1	2	1	1	1	..	..	..	..	..	..	..	..	..	49	68	117
3	..	1	..	3	3	2	1	..	..	..	..	..	..	..	..	55	51	106
2	1	..	2	1	2	..	1	1	..	..	..	..	..	..	..	37	61	98
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	4
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	4	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	45	45
32	33	21	26	22	32	11	16	12	8	..	2	..	1	..	..	5,014	4,572	9,586
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	85	59	144
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	88	59	147

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Dietetic.*										
	Inanition (privation, etc.)	128	118	4	3	4	2	128	114	2	3
	Scurvy	..	1	4	1	..	..	..	..	..	..
	Purpura	6	8	6	..	..	..	4	6	..	1
	Alcoholism *a.* Intemperance	58	18	70	20	1	..	..	..	..	..
	Alcoholism *b.* Delirium tremens	15	5	32	4	..	..	..	..	..	..
	Total dietetic diseases	207	150	116	28	5	2	132	120	2	4
4	*Parasitic.*										
	Aphthæ	9	15	..	..	..	1	9	14	..	1
	Hydatid	1	..	2	..	..	..	..	..	..	..
	Worms	4	2	..	..	..	..	2	..	1	1
	Total parasitic diseases	14	17	2	..	..	1	11	14	1	2
	Total zymotic class	4,675	4,252	766	574	81	68	2,076	1,742	913	830
1	*Diathetic.*										
	Gout	1	..	1	..	..	..	..	..	..	..
	Rheumatism	46	40	56	51	2	4	4	2	..	1
	Anæmia	6	12	6	5	..	1	3	4	..	..
	Cancer of stomach	17	11	69	69	2	1	..	..	..	..
	Cancer of breast	..	32	4	72	..	3	..	..	..	..
	Cancer of uterus	..	69	..	136	..	4	..	..	..	..
	Cancer of liver	12	14	35	40	..	..	..	..	..	..
	Cancer of rectum	3	7	8	13	..	..	..	..	..	..
	Cancer, others	40	22	90	67	4	1	..	..	..	..
	Lupus exedens	..	1	1	..	..	..	..	..	..	..
	Noma (cancrum oris)	2	2	..	1	..	..	..	..	..	..
	Other diathetic diseases	..	2	..	..	..	..	..	..	..	..
	Total diathetic diseases	127	212	270	454	8	14	7	6	..	1
2	*Tubercular.*										
	Scrofula	12	9	1	..	..	1	7	6	2	1
	Lumbar abscess (psoas abscess, etc.)	..	..	2	2	..	..	..	..	..	..
	Tabes mesenterica and marasmus	483	407	8	6	16	8	449	359	34	42

and Color— Year 1887—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	1	..	..	..	1	130	119	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	1	1	..	..	..	6	8	1	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	3	2	18	9	27	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	5	4	6	1
1	2	1	..	..	1	136	127	1	..	1	..	..	..	5	2	24	13	33	6
..	..	..	..	..	..	9	15	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
..	..	1	1	..	..	4	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	1	..	..	13	17	..	..	..	..	..	..	1	..	..	..	..	..
533	509	384	394	255	217	4,161	3,692	367	415	61	51	59	50	103	77	120	95	97	71
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	1	1	..	1	..	8	4	4	4	1	3	7	2	3	6	7	2	10	9
..	..	..	..	1	..	4	4	..	..	..	..	..	1	1	2	..	1	1	1
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	4	4	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	7	..	7
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	5	1	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	2	1
1	..	..	..	..	..	1	..	..	..	1	1	4	..	5	1	6	2	6	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	2	2	..	..	..	2	2	..	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..
3	3	3	..	2	..	15	10	4	6	2	5	12	3	9	14	18	20	24	28
1	1	..	..	..	..	10	8	1	..	2	1	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..
4	8	3	1	..	2	490	412	1	1	..	..	..	..	..	..	..	..	..	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
3	*Dietetic.*												
	Inanition (privation, etc.)	..	..	1	..	..	..	..	..	..	..	1	..
	Scurvy	..	..	..	1	..	1	2	..	..	..	1	..
	Purpura	1	..	1	..	2	..	..	..	..	..	..	..
	Alcoholism *a.* Intemperance	21	5	15	7	16	3	13	2	5	3	4	..
	Alcoholism *b.* Delirium tremens	12	1	7	1	7	..	3	..	4	..	1	..
	Total dietetic diseases	34	6	24	9	25	4	18	2	9	3	7	..
4	*Parasitic.*												
	Aphthæ	..	..	..	..	..	..	..	..	..	..	..	..
	Hydatid	..	..	1	..	1	..	..	..	..	..	..	..
	Worms	..	..	..	..	..	..	..	..	..	..	..	..
	Total parasitic diseases	..	..	1	..	1	..	..	..	..	..	..	..
	Total zymotic class	85	44	64	39	75	40	62	38	37	47	46	42
1	*Diathetic.*												
	Gout	..	..	..	..	..	..	..	..	..	..	2	..
	Rheumatism	3	8	9	6	7	2	16	8	4	7	6	16
	Anæmia	..	..	1	1	2	3	1	1	..	1	1	1
	Cancer of stomach	3	6	8	6	3	15	12	6	21	9	12	12
	Cancer of breast	..	8	..	11	1	20	..	14	1	12	1	16
	Cancer of uterus	..	23	..	33	..	35	..	26	..	33	..	20
	Cancer of liver	5	3	2	7	9	3	7	9	6	14	2	4
	Cancer of rectum	2	1	..	2	2	1	..	6	1	2	2	1
	Cancer, others	8	4	12	9	14	16	11	7	15	19	17	9
	Lupus exedens	..	..	..	..	..	..	..	..	..	..	..	..
	Noma (cancrum oris)	..	..	..	..	..	..	..	..	..	..	..	..
	Other diathetic diseases	..	..	..	..	..	..	..	..	..	..	..	..
	Total diathetic diseases	21	53	32	75	38	95	47	77	48	97	43	79
2	*Tubercular.*												
	Scrofula	..	..	1	..	..	..	..	..	..	..	..	..
	Lumbar abscess (psoas abscess, etc.)	..	..	..	1	..	..	1	..	..	..	..	..
	Tabes mesenterica and marasmus	..	..	..	..	..	..	..	..	..	..	..	..

and Color—Year 1887—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	132	121	253
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	4	2	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	8	20
3	1	1	1	1	..	..	..	..	..	..	..	..	..	..	..	128	38	166
..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	47	9	56
3	2	1	2	1	..	1	1	..	1	..	..	..	..	..	..	323	178	501
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	15	24
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	2	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	17	33
35	36	22	28	23	32	12	17	12	9	..	2	..	1	..	..	5,441	4,826	10,267
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
6	8	6	2	2	1	2	3	..	..	1	..	..	..	..	..	102	91	193
1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	12	17	29
12	12	7	2	3	4	..	..	..	..	..	..	..	..	..	..	86	80	166
1	8	..	4	..	..	..	4	..	1	..	..	..	..	..	..	4	104	108
..	14	..	3	..	1	..	..	..	1	..	..	..	..	..	..	..	205	205
5	5	5	2	1	2	..	2	..	..	..	..	..	..	..	..	47	54	101
1	1	..	1	1	1	..	..	..	..	..	..	..	..	..	..	11	20	31
13	8	5	8	5	2	2	2	..	..	..	..	..	..	..	..	130	89	219
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
44	56	23	23	12	11	4	12	..	2	1	..	..	..	..	..	397	666	1,063
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	9	24
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	491	413	904

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Tubercular.*										
	Phthisis pulmonalis	1,353	1,135	1,647	1,125	86	82	55	44	28	41
	Hydrocephalus and tubercular meningitis	345	268	24	16	10	8	162	136	83	64
	Rachitis	13	13	1	2	1	..	7	6	2	3
	Other tubercular diseases	1	2	..	1	..	..	..	..	..	..
	Total tubercular diseases	2,207	1,834	1,685	1,152	113	99	680	552	149	151
	Total constitutional class	2,334	2,046	1,955	1,606	121	113	687	557	149	152
1	*Nervous.*										
	Meningitis	459	369	76	48	9	9	215	163	90	76
	Encephalitis	10	6	6	4	1	..	3	2	3	1
	Softening of brain	22	12	30	41	..	1	..	..	..	..
	Apoplexy	139	113	311	282	8	11	6	3	1	2
	Insanity	18	30	22	60	2	3	..	..	..	..
	Epilepsy	21	23	8	13	..	1	..	..	..	..
	Convulsions	312	280	4	2	4	10	251	209	41	54
	Laryngismus stridulus	11	13	..	..	..	..	8	9	3	1
	Paralysis	48	20	72	34	3	..	..	1	1	..
	Paraplegia	4	..	4	3	1	..	..	..	..	..
	Hemiplegia	15	9	13	18	1	1	1	..	..	..
	Chorea	..	2	..	..	..	..	..	..	..	..
	Trismus nascentium	33	22	..	..	3	..	33	21	..	1
	Myelitis	7	12	18	10	..	1	..	1	..	1
	Congestion of brain	71	52	15	9	2	1	34	30	17	14
	Embolism of brain	3	7	12	11	..	..	..	..	..	..
	Thrombosis of brain	1	1	..	2	..	..	1	..	..	..
	Abscess of brain	2	..	3	3	..	..	..	..	..	1
	Tumor of brain	11	7	9	8	1	..	..	..	..	..
	Cerebro-spinal sclerosis	..	3	4	..	..	1	..	..	..	..
	Labio-glosso-laryngeal paralysis	..	..	1	..	..	..	..	..	..	..
	Progressive locomotor ataxia	7	2	7	2	..	..	..	..	..	..
	Tabes dorsalis	..	1	6	1	..	..	..	..	..	..
	Direct effect of solar heat	48	20	125	23	2	1	11	10	3	2
	Other nervous diseases	3	3	8	9	..	1	1	..	..	..
	Total nervous diseases	1,245	1,007	754	583	37	41	564	449	159	153

and Color—Year 1887—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
17	7	3	7	3	1	106	100	22	25	21	27	149	128	371	348	450	400	387	264
38	22	26	16	12	11	321	249	24	14	3	10	7	3	2	2	1	2	3	2
1	3	..	2	2	..	12	14	..	1	2	..	..	..	..	..	..	..	..	..
..	..	..	..	1	..	1	..	..	..	..	1	..	..	..	1	..	..	..	..
61	41	32	26	18	14	940	783	48	41	28	40	156	131	373	351	452	402	391	266
64	44	35	26	20	14	955	793	52	47	30	45	168	134	382	365	470	422	415	294
37	33	13	21	13	15	368	308	35	26	17	11	8	5	10	7	11	7	12	9
1	1	..	..	1	..	8	4	1	..	..	1	..	1	..	..	..	..	..	2
1	..	..	..	..	..	1	..	..	..	..	..	1	..	..	1	..	..	2	..
..	1	..	..	..	..	7	6	..	1	1	1	2	..	2	4	8	6	18	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	3	9	5	4	15
1	1	1	..	..	..	2	1	2	3	4	..	4	2	3	7	5	2	2	6
16	14	4	3	3	2	315	282	1	..	..	..	..	..	..	..	..	..	..	..
..	1	..	1	..	1	11	13	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	2	1	..	1	..	..	..	..	1	..	5	1	6	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..
..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..
..	..	..	..	..	..	33	22	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	2	1	..	..	..	..	1	1	2	..	..	2	2
8	4	1	1	1	2	61	51	5	1	..	..	..	..	..	1	1	1	2	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1	2	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	1	..	..	..	1	..	2	..	..	..
..	..	..	2	..	..	..	2	..	1	1	..	3	..	..	2	2	2	2	1
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	1	..	..	1	1	16	14	1	..	1	..	1	..	13	4	18	3	28	1
..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	1	..	1	..	..
65	56	20	28	19	21	827	707	46	33	25	15	20	10	37	34	62	29	83	46

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Tubercular.*												
	Phthisis pulmonalis	373	269	355	200	220	121	173	106	139	70	111	81
	Hydrocephalus and tubercular meningitis	2	1	3	..	..	1	2	..	..	..	..	..
	Rachitis	..	..	..	..	..	..	..	..	..	..	..	..
	Other tubercular diseases	..	1	..	..	..	..	..	..	..	..	..	..
	Total tubercular diseases	375	271	359	201	220	122	176	106	139	70	111	81
	Total constitutional class	396	324	391	276	258	217	223	183	187	167	154	160
1	*Nervous.*												
	Meningitis	15	10	10	3	11	8	11	6	10	5	4	1
	Encephalitis	1	..	..	..	1	..	1	..	1	1	1	..
	Softening of brain	2	2	1	3	4	2	4	5	7	3	6	5
	Apoplexy	28	22	31	22	40	28	53	40	51	21	61	55
	Insanity	7	11	2	9	3	..	2	10	1	5	3	7
	Epilepsy	..	5	..	4	2	2	..	1	2	..	2	1
	Convulsions	..	..	..	..	..	..	..	..	..	..	..	..
	Laryngismus stridulus	..	..	..	..	..	..	..	..	..	..	..	..
	Paralysis	16	3	15	3	14	3	10	2	7	4	5	8
	Paraplegia	..	..	1	1	..	1	..	..	1	1	..	..
	Hemiplegia	..	..	..	..	1	1	4	3	2	3	3	4
	Chorea	..	..	..	..	..	..	..	..	..	..	..	..
	Trismus nascentium	..	..	..	..	..	..	..	..	..	..	..	..
	Myelitis	1	..	5	2	2	3	1	4	6	1	2	4
	Congestion of brain	3	..	1	2	3	1	3	1	2	..	2	..
	Embolism of brain	1	1	2	..	1	2	..	2	2	1	3	4
	Thrombosis of brain	..	..	..	..	..	1	..	..	..	..	..	1
	Abscess of brain	..	..	..	1	..	..	..	1	1	..	..	..
	Tumor of brain	3	1	3	..	..	2	3	..	1	1	1	2
	Cerebro-spinal sclerosis	..	1	..	..	1	..	1	..	1	1	..	..
	Labio-glosso-laryngeal paralysis	..	..	..	..	..	..	..	..	..	..	..	..
	Progressive locomotor ataxia	..	..	1	..	2	..	2	3	2	..	3	..
	Tabes dorsalis	..	..	1	..	..	..	1	1	1	..	1	..
	Direct effect of solar heat	33	1	26	5	13	3	9	3	5	3	6	2
	Other nervous diseases	1	4	1	..	..	..	..	2	1	1	1	2
	Total nervous diseases	111	61	100	55	98	57	105	84	104	81	104	96

and Color—Year 1887—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
70	43	33	42	11	22	5	11	3	2	1	..	..	1	..	..	3,000	2,260	5,260
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	369	284	653
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	15	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	4
71	43	33	42	11	22	5	11	3	2	1	..	..	1	..	..	3,892	2,986	6,878
115	99	56	65	23	33	9	23	3	4	2	..	..	1	..	..	4,289	3,652	7,941
3	3	3	2	5	2	2	1	..	3	..	..	..	..	..	..	535	417	952
1	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	16	10	26
4	9	4	6	6	7	8	6	1	4	1	..	..	..	..	..	52	53	105
46	51	42	37	40	29	11	18	7	10	2	5	..	2	..	..	450	395	845
3	10	..	5	2	4	..	1	..	2	..	1	..	1	..	1	40	90	130
..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	29	36	65
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	316	282	598
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	13	24
14	7	12	6	3	10	6	2	3	2	1	..	..	..	..	..	120	54	174
2	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	8	3	11
4	2	6	5	2	1	3	1	1	5	..	1	..	..	..	..	28	27	55
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	33	22	55
2	1	1	..	1	..	..	..	..	..	..	..	..	..	..	..	25	22	47
1	..	..	1	1	1	..	1	..	..	1	..	..	..	..	..	86	61	147
2	1	..	..	4	2	1	1	..	1	..	..	..	..	..	..	15	18	33
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	3	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	3	8
..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	20	15	35
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	3	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	14	4	18
1	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	6	2	8
2	2	..	1	1	..	..	..	..	1	..	..	..	..	..	..	173	43	216
2	..	1	1	1	..	..	..	1	..	..	..	..	..	..	..	11	12	23
88	89	72	66	64	57	35	31	13	28	5	7	..	3	..	1	1,999	1,590	3,589

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Circulatory.*										
	Pericarditis	15	28	28	22	2	2	1	..	..	..
	Aneurism	26	4	43	12	2	..	..	..	..	..
	Hypertrophy of the heart	29	37	55	52	3	1	..	..	..	1
	Valvular disease of the heart	218	207	334	322	20	16	11	5	1	1
	Ossification	1	..	..	1	..	..	..	..	..	..
	Syncope	1	..	..	..	..	..	1	..	..	..
	Fatty degeneration of the heart	41	34	71	57	..	2	..	..	..	..
	Endocarditis	51	42	68	59	3	4	6	1	3	..
	Disease of the heart	48	34	75	60	2	2	1	..	1	1
	Angina pectoris	5	5	7	9	1	..	..	..	..	..
	Thrombosis	..	..	..	1	..	..	..	..	..	..
	Phlebitis	..	..	2	1	..	..	..	..	..	..
	Epistaxis	1	1	..	..	..	..	..	..	..	..
	Other circulatory diseases	2	..	3	1	..	..	..	..	..	..
	Total circulatory diseases	438	392	686	597	33	27	20	6	5	3
3	*Respiratory.*										
	Laryngitis	23	19	8	4	..	..	4	4	7	7
	Bronchitis	661	605	265	307	26	20	453	361	114	102
	Pneumonia	1,193	1,055	866	593	54	40	448	352	232	198
	Pleuritis	36	30	37	32	3	..	8	5	4	4
	Pleuritis, hydrothorax	..	..	2	..	..	..	..	..	..	..
	Pleuritis, empyema	8	8	7	5	..	..	1	2	1	1
	Gangrene of lungs	1	..	2	..	..	..	..	..	1	..
	Congestion of lungs	32	35	23	15	1	3	21	19	3	3
	Hæmorrhage of lungs	6	1	8	..	2	..	1	1	..	..
	Abscess of lungs	1	2	2	2	..	..	1	1	..	..
	Emphysema and asthma	3	9	34	40	..	1	..	..	2	..
	Œdema glottidis	4	..	..	..	..	..	2	..	..	..
	Total respiratory diseases	1,968	1,764	1,254	998	86	64	939	745	364	325
4	*Digestive.*										
	Stomatitis	6	6	1	1	..	..	5	5	1	1
	Pharyngitis	2	2	2	..	..	..	..	..	..	..

and Color—Year 1887—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	1	1	1	1	3	2	5	1	2	4	4	3	6	3	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	4	..	4	3
..	..	..	..	..	2	..	3	1	3	1	1	1	1	3	5	1	5	2	4
..	1	3	1	1	3	16	11	15	19	16	25	23	23	19	31	36	28	45	24
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	3	2	6	2	3
..	..	1	..	..	..	10	1	3	4	6	6	5	4	5	4	10	9	9	4
1	..	..	..	1	..	4	1	3	..	..	7	2	3	6	4	2	4	8	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	1	5	1	2	6	33	17	23	30	26	44	32	33	41	52	58	59	75	47
4	2	1	2	..	..	16	15	2	3	2	..	..	..	..	1	2	..	2	1
44	49	17	19	2	11	630	542	9	17	3	4	1	7	14	8	9	10	13	7
95	103	42	46	32	28	849	727	42	49	19	20	32	33	87	48	100	56	110	68
3	2	1	2	1	..	17	13	1	2	..	..	3	2	4	2	5	2	8	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
1	1	..	..	1	..	4	4	3	1	..	3	.	..	2	..	1	..	1	1
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..
1	..	2	2	..	..	27	24	..	..	..	2	1	..	..	1	1	2	1	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	1	..	2	..	1	..
..	..	..	..	..	..	1	1	..	1	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	3	..	..	..	..	..	..	..	1	..	..	..	..	1
..	..	..	..	..	..	2	..	1	..	..	..	..	..	..	..	..	..	..	..
149	157	63	71	36	39	1,551	1,327	58	73	24	29	37	42	109	60	121	70	137	82
..	..	..	..	..	..	6	6	..	1	..	..	..	..	..	..	..	..	..	..
..	..	1	1	1	..	2	1	..	..	..	..	..	..	..	..	..	..	..	1

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Circulatory.*												
	Pericarditis	1	4	5	3	6	4	5	3	4	1	2	3
	Aneurism	5	1	7	3	15	2	14	..	11	..	2	4
	Hypertrophy of the heart	9	6	12	3	5	9	4	10	7	5	15	10
	Valvular disease of the heart	52	32	47	26	36	47	47	41	45	49	54	43
	Ossification	..	..	..	..	..	..	..	..	..	..	..	..
	Syncope	..	..	..	..	..	..	..	..	..	..	..	..
	Fatty degeneration of the heart	9	8	9	7	13	13	10	10	14	8	17	10
	Endocarditis	9	10	8	7	19	18	10	5	6	5	6	8
	Disease of the heart	12	7	11	6	19	13	10	7	7	8	8	9
	Angina pectoris	..	3	2	2	1	1	..	1	3	1	..	..
	Thrombosis	..	..	..	..	..	..	..	1	..	..	..	..
	Phlebitis	..	..	..	..	..	..	..	1	..	..	..	..
	Epistaxis	..	..	..	..	..	..	..	..	..	..	..	..
	Other circulatory diseases	..	..	1	..	..	..	1	..	1	..	..	..
	Total circulatory diseases	97	71	102	59	114	107	101	79	98	77	104	87
3	*Respiratory.*												
	Laryngitis	..	..	2	..	..	..	..	2	4	..	..	..
	Bronchitis	10	13	16	17	13	22	35	33	20	22	31	33
	Pneumonia	110	72	152	72	110	72	101	78	92	57	74	76
	Pleuritis	6	5	5	4	4	2	6	3	3	5	5	3
	Pleuritis, hydrothorax	..	..	..	..	1	..	..	..	..	..	..	..
	Pleuritis, empyema	2	..	..	1	..	..	1	..	..	..	..	1
	Gangrene of lungs	..	..	..	..	1	..	..	..	..	..	..	..
	Congestion of lungs	4	1	1	..	2	1	4	3	2	3	1	1
	Hæmorrhage of lungs	4	..	1	..	1	..	1	..	..	..	..	..
	Abscess of lungs	..	..	1	..	..	..	1	1	..	1	..	..
	Emphysema and asthma	1	..	1	2	2	7	8	6	6	1	8	8
	Œdema glottidis	..	..	..	..	..	..	..	..	..	..	..	..
	Total respiratory diseases	137	91	179	96	134	104	157	126	127	89	119	122
4	*Digestive.*												
	Stomatitis	..	..	..	..	..	..	..	..	..	..	..	..
	Pharyngitis	1	..	..	..	..	..	1	..	..	..	..	..

and Color—Year 1887—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
3	1	2	1	..	2	..	2	..	..	..	..	..	..	..	..	43	50	93
2	..	2	1	1	1	..	..	..	..	..	..	..	..	..	..	69	16	85
12	7	5	10	5	5	..	2	1	..	..	..	..	..	..	..	84	89	173
37	42	29	34	26	27	6	21	3	4	..	..	..	..	..	..	552	529	1,081
..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
15	7	9	4	9	8	..	4	1	..	..	..	..	..	..	..	112	91	203
5	7	5	5	1	3	..	1	2	..	..	..	..	..	..	..	119	101	220
11	4	9	5	7	9	1	4	3	..	..	..	..	..	..	..	123	94	217
1	2	..	..	1	1	1	1	..	..	..	..	..	..	..	..	12	14	26
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	2	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	..	1	..	..	1	1	..	..	..	..	..	..	..	..	..	5	1	6
87	70	62	61	52	57	9	35	10	4	..	..	..	..	..	..	1,124	989	2,113
1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	23	54
38	44	36	51	16	27	19	32	7	14	2	7	3	2	1	..	926	912	1,838
65	72	52	52	25	54	27	23	11	11	1	5	..	2	..	1	2,059	1,648	3,707
1	7	1	5	3	2	..	1	1	..	..	..	..	..	..	..	73	62	135
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	1	..	..	2	..	..	..	..	..	..	..	..	..	..	15	13	28
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
3	2	4	..	2	3	1	6	1	1	..	..	..	..	..	..	55	50	105
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	1	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	4	7
2	6	3	6	1	6	..	3	1	3	..	..	..	..	..	..	37	49	86
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	4
113	132	97	114	47	94	47	65	21	29	3	12	3	4	1	1	3,222	2,762	5,984
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	7	7	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	2	6

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*										
	Gastritis	67	53	45	43	..	..	26	24	4	3
	Dyspepsia	21	23	6	6	..	..	19	13	1	4
	Enteritis	96	81	34	34	..	4	71	57	10	10
	Gastro-enteritis	296	237	35	34	5	2	260	189	31	39
	Hæmatemesis	3	2	4	..	..	..	2	1	..	..
	Peritonitis	54	54	44	72	3	5	9	3	4	..
	Ascites	1	..	..	2	..	..	..	..	..	..
	Ulceration of intestines (perforation?)	4	4	..	3	..	..	1	1	..	..
	Intussusception of intestines	24	16	16	14	..	..	12	10	2	1
	Stricture of intestines	..	..	1	..	..	..	..	..	..	..
	Hernia	13	5	27	27	1	..	6	2	..	..
	Ulcer of the stomach	6	10	19	11	..	..	..	..	..	..
	Hæmorrhage of bowels	4	2	..	1	..	..	4	1	..	..
	Colic	7	2	1	2	..	..	7	2	..	..
	Fatty degeneration of liver	4	3	8	6	..	..	2	..	..	..
	Hypertrophy of liver	6	3	6	13	..	..	..	..	..	1
	Cirrhosis of liver	37	25	133	85	2	1	3	..	..	..
	Abscess of liver	4	..	5	2	1	..	..	..	..	..
	Tumor of liver	..	..	..	1	..	..	..	..	..	..
	Congestion of liver	4	2	1	3	..	..	1	..	..	..
	Atrophy of liver	1	3	5	3	..	..	..	..	..	..
	Hepatitis	19	8	46	54	..	1	5	1	..	..
	Jaundice	15	3	..	..	..	..	13	3	..	..
	Perforation of vermiform appendix	4	1	1	4	..	..	..	..	..	..
	Leucocythæmia	4	1	2	3	..	..	..	..	1	..
	Fistula in ano	1	..	2	3	..	..	..	..	..	..
	Stricture of œsophagus	1	1	3	1	..	..	..	..	..	..
	Stricture of rectum	..	2	..	..	..	1	..	..	..	..
	Gall stones	1	3	5	11	..	..	..	..	..	..
	Impacted fæces	1	1	..	..	..	..	1	..	..	..
	Other digestive diseases	16	14	6	9	..	1	4	5	1	2
	Total digestive diseases	722	567	458	448	12	15	461	317	55	61

and Color—Year 1887—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
5	2	1	1	..	1	46	31	3	..	..	..	3	1	1	4	3	7	8	4
..	1	..	2	..	..	20	20	..	1	1	..	..	..	..	..	..	..	..	..
2	1	1	..	..	1	84	69	4	8	1	1	6	1	9	2	3	3	3	..
11	4	2	3	1	..	305	235	1	1	2	3	1	..	1	5	2	2	1	3
..	..	..	..	..	..	2	1	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	2	..	3	13	8	8	10	1	6	11	6	10	16	10	9	5	18
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	1	2	1	..	1	1	1	..	..	..	..	..	..
..	..	..	1	..	..	14	12	1	1	6	..	2	..	1	..	1	1	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	6	2	..	..	..	..	1	..	1	..	2	1	..	..
..	..	..	..	..	..	..	..	..	..	..	1	2	..	..	4	2	3	2	2
..	..	..	..	..	..	4	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	7	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	2	1	..	1	..	..	1	..	..	..	..	1	..	..
..	..	..	..	1	..	1	1	1	..	..	..	..	..	..	..	1	1	1	1
..	..	.	..	..	..	3	..	1	..	1	..	..	1	1	4	10	3	8	9
..	..	..	..	..	..	..	..	..	..	1	..	..	1	1	..	1	..	2	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	5	1	2	..	..	..	..	1	1	..	2	3	7	4
..	..	..	..	1	..	14	3	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	1	1	..	2	..	..	1	..	1	1	..
..	..	..	..	..	..	1	..	1	..	..	..	1	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	2	6	9	1	..	..	..	1	..	1	4	..	..	1	1
19	9	6	11	4	7	545	405	25	25	14	12	32	12	28	40	37	38	41	46

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	*Digestive.*												
	Gastritis	4	3	6	3	5	5	5	8	5	3	7	6
	Dyspepsia	..	..	1	1	..	..	1	1	..	2	1	3
	Enteritis	6	4	..	3	6	2	1	4	3	3	2	2
	Gastro-enteritis	3	1	2	2	1	5	3	3	1	2	4	3
	Hæmatemesis	1	..	2	..	..	..	1	..	1	..	..	..
	Peritonitis	2	7	8	11	4	2	6	11	6	6	4	6
	Ascites	..	..	..	..	..	..	1	..	..	..	..	2
	Ulceration of intestines (perforation?)	..	..	..	..	..	1	..	..	..	1	..	..
	Intussusception of intestines	2	1	4	1	..	3	4	1	1	3	2	1
	Stricture of intestines	..	..	1	..	..	..	..	..	..	..	..	..
	Hernia	3	2	1	2	5	3	4	4	3	4	4	6
	Ulcer of the stomach	2	2	4	1	3	2	3	1	2	1	2	2
	Hæmorrhage of bowels	..	..	..	..	..	..	..	..	..	..	..	..
	Colic	..	..	..	..	..	1	..	..	..	..	1	1
	Fatty degeneration of liver	4	1	1	..	1	1	1	1	1	1	..	1
	Hypertrophy of liver	1	1	2	..	2	2	1	5	..	2	2	1
	Cirrhosis of liver	14	11	25	14	24	19	32	13	20	11	13	11
	Abscess of liver	2	..	2	..	..	..	..	..	..	1	..	..
	Tumor of liver	..	..	..	..	..	..	..	1	..	..	..	..
	Congestion of liver	..	..	1	..	1	..	..	..	1	..	..	..
	Atrophy of liver	2	..	..	..	1	..	1	2	..	1	..	..
	Hepatitis	5	3	10	6	13	15	4	6	4	8	3	4
	Jaundice	..	..	..	..	..	..	..	..	..	..	..	..
	Perforation of vermiform appendix	1	1	..	..	..	1	..	..	..	..	..	..
	Leucocythæmia	..	1	..	..	..	..	..	2	..	..	1	..
	Fistula in ano	..	..	1	..	1	1	1	..	..	1	..	..
	Stricture of œsophagus	..	..	..	..	1	..	2	..	1	1	..	..
	Stricture of rectum	..	2	..	..	..	..	..	..	..	..	..	..
	Gall stones	..	2	1	..	2	3	1	1	1	2	1	2
	Impacted fæces	..	..	..	..	..	..	..	..	..	..	..	..
	Other digestive diseases	1	..	1	..	2	2	1	2	..	..	3	2
	Total digestive diseases	54	42	73	44	72	68	74	66	50	53	50	53

and Color—Year 1887—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
8	5	2	6	4	4	1	3	1	2	..	1	..	..	..	..	112	96	208
2	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	27	29	56
..	2	1	7	1	3	..	1	..	..	..	..	..	..	..	..	130	115	245
1	2	2	2	..	..	..	..	1	..	..	1	..	1	..	..	331	271	602
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	2	9
3	3	2	2	2	3	1	1	1	..	1	1	..	..	..	..	98	126	224
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	7	11
..	2	1	2	..	1	..	..	..	..	..	..	..	..	..	..	40	30	70
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
1	4	3	3	2	1	3	..	..	..	..	..	1	..	..	..	40	32	72
1	1	1	1	1	..	..	..	..	..	..	..	..	..	..	..	25	21	46
..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	3	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	4	12
1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	9	21
..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	12	16	28
12	8	2	3	3	2	..	..	1	1	..	..	..	..	..	..	170	110	280
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	2	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	2	..	1	..	..	..	..	..	..	..	1	..	..	..	..	5	5	10
1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	6	12
6	8	3	2	..	1	..	..	..	..	..	..	..	..	..	..	65	62	127
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	3	18
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5	10
1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	4	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	2	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	2	..	..	..	1	..	..	..	..	..	..	..	..	..	..	6	14	20
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
4	..	..	2	..	..	..	1	..	..	..	..	..	..	..	..	22	23	45
42	46	18	32	13	19	5	6	5	3	1	4	1	1	..	..	1,180	1,015	2,195

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
5	*Urinary.*										
	Nephritis	267	216	417	347	26	16	12	10	9	5
	Nephria (Bright's disease)	222	178	359	369	11	11	1	2	2	2
	Uræmia	6	7	4	3	..	1	2	1	..	..
	Diabetes	25	17	27	35	1	..	..	..	..	..
	Calculus	7	2	7	5	1	..	..	..	..	..
	Cystitis	17	..	33	12	1	..	..	..	..	..
	Prostatitis	1	..	3	..	..	..	..	..	..	..
	Pyelitis	2	..	..	..	..	..	1	..	..	..
	Hæmaturia	2	..	1	1	..	..	..	..	..	..
	Hypertrophy of prostate	8	..	16	..	..	..	..	..	..	..
	Suppression of urine	3	2	2	1	..	..	1	1	..	..
	Stricture of urethra	3	..	8	..	..	..	..	..	..	..
	Other urinary diseases	4	..	1	2	1	..	..	..	..	..
	Total urinary diseases	567	422	878	776	41	28	17	14	11	7
6	*Generative.*										
	Ovarian tumor	..	6	..	13	..	1	..	..	..	..
	Ovarian dropsy	..	1	..	2	..	..	..	..	..	..
	Ovarian cyst	..	6	..	6	..	1	..	..	..	..
	Metritis and metro-peritonitis (not puerperal)	..	2	..	6	..	..	..	..	..	..
	Fibroid uterine tumor	..	15	..	14	..	4	..	..	..	..
	Ovaritis	..	1	..	..	..	..	..	..	..	..
	Other generative diseases	..	14	2	9	..	..	..	..	..	..
	Total generative diseases	..	45	2	50	..	6	..	..	..	..
7	*Locomotory and Osseous.*										
	Arthritis	2	3	5	7	1	..	..	..	..	..
	Necrosis	3	2	2	4	..	..	..	..	..	1
	Spinal disease	16	7	6	3	1	..	1	..	2	..
	Hip disease	12	13	3	2	1	..	..	..	1	..
	Caries	16	10	6	6	1	1	1	2	3	..
	Synovitis	2	1	..	2	..	..	..	1	..	..
	Other locomotory and osseous diseases	6	6	2	4	..	..	1	1	1	1
	Total locomotory and osseous	57	42	24	28	4	1	3	4	7	2

and Color—Year 1887—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
8	3	7	6	5	6	41	30	7	17	5	9	7	8	26	20	42	34	50	44
2	2	2	2	..	1	7	9	6	5	7	3	7	10	21	17	41	31	42	48
..	1	..	..	..	..	2	2	..	..	..	..	1	..	..	3	..	..	1	1
..	..	..	..	..	..	..	..	1	..	..	..	..	1	1	..	1	..	3	2
1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	2	..	1
..	..	..	..	..	..	..	..	2	..	..	..	..	..	1	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	1	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..
11	6	9	8	5	7	53	42	16	22	12	12	16	19	51	42	85	67	100	96
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	3
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	3	..	4	..	3
..	..	..	..	..	..	..	..	..	..	..	2	..	2	..	4	..	7	..	16
..	..	..	..	..	..	..	..	..	2	..	1	..	..	2	..	1	..	..	..
..	..	..	..	1	..	1	1	..	..	1	..	..	..	1	..	..	1	1	..
..	..	..	1	..	1	3	2	10	2	3	..	1	1	..	..	1	..	..	1
1	..	..	..	1	..	3	..	3	9	5	1	1	2	..	..	..	1	1	1
..	..	3	1	..	..	7	3	4	4	1	2	2	1	3	1	..	..	1	2
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	1	..	4	2	..	1	1	2	..	..	..	..	..	1	1	2
1	..	4	2	3	1	18	9	17	18	11	6	4	4	6	1	2	3	4	6

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
5	*Urinary.*												
	Nephritis	80	67	62	60	71	44	72	61	65	43	64	33
	Nephria (Bright's disease)	58	54	41	54	56	59	52	58	61	32	58	55
	Uræmia	1	1	1	1	1	..	..	..	..	1	1	..
	Diabetes	2	3	..	3	9	4	7	6	11	10	2	4
	Calculus	1	..	1	..	..	1	2	..	..	2	3	..
	Cystitis	..	2	3	..	1	1	2	..	1	1	7	3
	Prostatitis	..	..	..	..	..	..	1	..	..	..	..	..
	Pyelitis	..	..	..	..	..	..	1	..	..	..	..	..
	Hæmaturia	..	..	..	..	..	..	..	..	..	..	..	..
	Hypertrophy of prostate	..	..	..	..	..	..	1	..	2	..	2	..
	Suppression of urine	1	..	1	..	..	..	..	..	..	..	1	..
	Stricture of urethra	..	..	..	..	1	..	1	..	3	..	1	..
	Other urinary diseases	1	..	..	1	..	..	..	..	1	1	..	..
	Total urinary diseases	144	127	109	119	139	109	139	125	144	90	139	95
6	*Generative.*												
	Ovarian tumor	..	1	..	3	..	2	..	4	..	2	..	1
	Ovarian dropsy	..	..	..	2	..	..	..	1	..	..	..	..
	Ovarian cyst	..	1	..	3	..	..	..	1	..	1	..	..
	Metritis and metro-peritonitis (not puerperal)	..	1	..	1	..	..	..	1	..	1	..	..
	Fibroid uterine tumor	..	5	..	7	..	3	..	3	..	1	..	1
	Ovaritis	..	1	..	..	..	..	..	..	..	..	..	..
	Other generative diseases	..	7	..	2	..	..	..	1	1	..	1	..
	Total generative diseases	..	16	..	18	..	5	..	11	1	5	1	1
7	*Locomotory and Osseous.*												
	Arthritis	..	..	1	1	1	..	..	1	2	..	..	1
	Necrosis	..	1	..	1	..	..	1	..	..	..	..	2
	Spinal disease	1	1	..	1	..	..	1	..	..	..	2	1
	Hip disease	2	..	..	..	..	..	..	1	..	..	..	..
	Caries	1	..	..	..	..	..	1	..	1	1	1	2
	Synovitis	1	..	..	..	..	..	1	..	..	1	..	..
	Other locomotory and osseous diseases	..	..	1	2	..	..	1	..	..	..	..	..
	Total locomotory and osseous	5	2	2	5	1	..	5	2	3	2	3	6

and Color—Year 1887—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
44	32	18	22	13	24	8	10	7	5	2	..	..	..	..	..	684	563	1,247
59	34	27	31	24	27	6	11	7	4	1	5	..	..	..	..	581	547	1,128
1	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	10	10	20
8	12	6	5	1	2	..	1	..	..	..	..	..	..	..	..	52	53	105
2	..	2	..	2	..	..	..	..	..	..	..	..	..	..	..	14	7	21
12	..	6	2	5	3	6	..	2	..	1	..	..	..	..	..	50	12	62
..	..	..	..	2	..	1	..	..	..	..	..	..	..	..	..	4	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
1	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..	3	1	4
4	..	7	..	2	..	5	..	..	..	..	..	..	..	..	..	24	..	24
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	5	3	8
2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	11	..	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	2	7
133	79	67	60	49	57	29	23	16	9	4	5	..	..	..	..	1,445	1,198	2,643
..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	19	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	8
..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	29	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	23	25
..	6	..	..	..	..	..	1	..	..	..	..	..	..	..	..	2	95	97
..	2	..	2	..	..	..	..	..	..	..	..	..	..	..	..	7	10	17
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	6	11
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	22	10	32
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	15	30
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22	16	38
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	10	18
..	3	..	3	..	..	..	..	..	..	..	..	..	..	..	..	81	70	151

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
8	*Integumentary.*										
	Abscess	16	19	13	13	2	..	7	10	2	1
	Pemphigus	3	1	2	..	..	..	2	..	..	..
	Eczema	7	6	1	1	..	..	8	3	..	1
	Otorrhœa	..	4	..	..	..	..	..	1	..	..
	Otitis	17	16	4	5	1	..	4	3	1	2
	Ophthalmia	..	2	1	..	..	..	..	1	..	..
	Elephantiasis	..	1	1	..	..	1	..	..	..	..
	Ulcer	1	3	8	6	..	1	..	1	..	..
	Gangrene	1	..	2	2	..	..	..	..	..	..
	Tumor	1	..	..	2	..	..	..	..	..	..
	Other integumentary diseases	3	4	3	4	..	..	1	..	1	2
	Total integumentary diseases	49	56	35	33	3	2	22	19	4	7
	Total local class	5,046	4,295	4,091	3,513	216	184	2,026	1,554	605	548
1	*Children.*										
	Premature birth	437	334	..	..	10	8	437	334	..	..
	Preternatural birth	45	25	..	..	2	1	45	25	..	..
	Cyanosis	64	70	..	1	..	..	63	70	..	1
	Atelectasis pulmonum	98	87	..	1	3	2	98	88	..	..
	Spina bifida	17	12	..	..	..	..	17	11	..	1
	Imperforate anus	7	6	..	..	..	1	7	6	..	..
	Other malformations	16	19	..	..	..	..	16	19	..	..
	Hæmorrhage of umbilicus	13	9	..	..	1	..	13	9	..	..
	Cleft palate	5	5	..	..	..	..	5	5	..	..
	Total developmental diseases of children	702	567	..	2	16	12	701	567	..	1
2	*Women.*										
	Childbirth	..	9	..	18	..	1	..	..	..	..
	Flooding	..	1	..	20	..	..	..	..	..	..
	Puerperal metritis and metro-peritonitis	..	33	..	68	..	5	..	..	..	..
	Puerperal septicæmia	..	14	..	38	..	..	..	..	..	..
	Puerperal nephritis	..	3	..	6	..	..	..	..	..	..

and Color—Year 1887—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	1	..	..	..	10	12	3	1	..	1	1	..	1	1	2	6	..	2
1	..	..	1	..	..	3	1	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	8	5	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	..	2	..	2	..	..	..	..	..	..	..	..	..	..
1	..	1	..	1	..	8	5	4	4	3	3	2	1	1	1	..	..	..	1
..	1	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	2	2	..	..	..	..	..	..	1	..	..	3	..	..
2	3	2	1	1	..	31	30	8	7	3	4	3	1	4	2	2	9	1	3
248	232	109	122	70	81	3,058	2,537	193	208	115	124	144	123	276	235	367	282	441	342
..	..	..	..	..	..	437	334	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	45	25	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	63	71	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	98	88	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	17	12	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	7	6	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	16	19	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	13	9	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	5	5	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	701	569	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	7	..	8
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	4	..	2	..	6
..	..	..	..	..	..	..	..	..	..	..	..	..	8	..	26	..	23	..	25
..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	16	..	16	..	9
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	4	..	3	..	1

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
8	*Integumentary.*												
	Abscess	2	..	2	2	1	1	4	..	1	3	2	1
	Pemphigus	..	..	..	..	1	.	1	..	..	..	..	..
	Eczema	..	..	..	..	..	..	..	..	..	..	..	1
	Otorrhœa	..	..	..	..	..	..	..	..	..	..	..	..
	Otitis	..	2	1	1	..	1	1	1	1	1	..	..
	Ophthalmia	..	..	1	..	..	..	..	..	..	..	..	..
	Elephantiasis	..	1	..	..	..	..	..	..	1	..	..	..
	Ulcer	..	2	1	..	2	1	..	..	2	..	1	1
	Gangrene	..	..	1	1	..	..	..	..	..	..	..	..
	Tumor	..	..	..	..	..	..	..	1	..	..	..	1
	Other integumentary diseases	1	..	..	..	1	1	1	..	..	1	..	..
	Total integumentary diseases	3	5	6	4	5	4	7	2	5	5	3	5
	Total local class	551	415	571	400	563	454	588	495	532	402	523	466
1	*Children.*												
	Premature birth	..	..	..	..	..	..	..	..	..	..	..	..
	Preternatural birth	..	..	..	..	..	..	..	..	..	..	..	..
	Cyanosis	..	..	..	..	..	..	..	..	..	..	..	..
	Atelectasis pulmonum	..	..	..	..	..	..	..	..	..	..	..	..
	Spina bifida	..	..	..	..	..	..	..	..	..	..	..	..
	Imperforate anus	..	..	..	..	..	..	..	..	..	..	..	..
	Other malformations	..	..	..	..	..	..	..	..	..	..	..	..
	Hæmorrhage of umbilicus	..	..	..	..	..	..	..	..	..	..	..	..
	Cleft palate	..	..	..	..	..	..	..	..	..	..	..	..
	Total developmental diseases of children	..	..	..	..	..	..	..	..	..	..	..	..
2	*Women.*												
	Childbirth	..	6	..	3	..	..	..	..	..	..	..	..
	Flooding	..	4	..	1	..	2	..	..	..	1	..	..
	Puerperal metritis and metro-peritonitis	..	15	..	3	..	..	..	..	..	1	..	..
	Puerperal septicæmia	..	7	..	1	..	..	..	..	..	..	..	..
	Puerperal nephritis	..	..	..	..	..	..	..	..	..	..	..	..

and Color— Year 1887—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	29	32	61
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	6
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	7	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21	21	42
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
..	1	1	2	1	..	..	..	..	..	..	..	..	..	..	..	9	9	18
1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	6	8	14
1	3	1	4	1	1	..	..	..	..	..	..	..	..	..	..	84	89	173
464	428	317	340	226	285	125	161	65	73	13	28	4	8	1	2	9,137	7,808	16,945
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	437	334	771
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	45	25	70
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	64	71	135
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	98	88	186
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17	12	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	6	13
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	19	35
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	9	22
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	702	569	1,271
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	27	27
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21	21
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	101	101
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	52	52
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	9

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Women.*										
	Puerperal convulsions	.	12	..	9	..	..	..	..	..	..
	Puerperal mania	..	1	..	2	..	..	..	..	..	..
	Miscarriage and abortion	..	15	..	28	..	..	..	..	..	..
	Phlegmasia dolens	..	2	..	..	..	..	..	..	..	..
	Placenta prævia	..	9	..	6	..	..	..	..	..	..
	Other developmental diseases of women	..	9	..	7	..	..	..	..	..	..
	Total developmental diseases of women	..	108	..	202	..	6	..	..	..	..
3	*Age.*										
	Senile gangrene	4	..	9	5	..	..	..	..	..	..
	Senile debility (old age)	26	55	137	250	3	9	..	..	..	..
	Total diseases of old age	30	55	146	255	3	9	..	..	..	..
4	*Nutrition.*										
	Atrophy	10	10	..	..	..	..	10	10	..	..
	Asthenia (debility)	48	50	..	1	1	1	46	50	2	1
	Total diseases of nutrition	58	60	..	1	1	1	56	60	2	1
	Total developmental class	790	790	146	460	20	28	757	627	2	3
1	*Accident and Negligence.*										
	Fractures and contusions	58	..	110	15	..	..	..	..	..	..
	Wounds by gunshot	15	2	4	..	..	..	..	..	..	..
	Wounds, others	7	..	6	..	..	..	1	..	..	..
	Killed by vehicles in the street	33	4	39	6	..	..	..	..	..	..
	Fall	152	57	182	62	3	2	3	1	6	6
	Burns and scalds	36	33	14	27	1	3	3	2	7	10
	Poison by lead	3	..	3	..	..	..	..	..	..	..
	Poison by carbolic acid	3	..	..	..	..	..	..	..	..	..
	Poison by hydrate of chloral	1	..	1	..	..	..	..	..	..	..
	Poison by opium	3	5	3	1	..	..	..	..	..	..
	Poison by other means	4	1	3	3	..	..	..	..	1	1
	Suffocation (asphyxia by)	34	25	19	6	3	1	20	21	..	1
	Drowning	62	5	130	10	..	..	1	..	3	1

and Color—Year 1887—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	8	..	5	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	8	..	12	..	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	8
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	8	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	20	..	69	..	81	..	73
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	10	10	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	48	51	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	48	61	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	759	630	1	..	..	..	..	20	..	69	..	81	..	73
..	..	1	..	1	..	2	..	7	..	9	..	9	..	12	..	24	1	24	2
..	..	..	..	..	..	..	..	1	..	5	..	3	..	4	2	4	..	..	..
..	..	..	..	..	..	1	..	1	..	4	..	..	..	..	..	..	..	..	..
1	..	3	4	1	..	5	4	14	2	4	1	3	..	5	..	9	1	3	..
6	5	8	11	6	4	29	27	23	11	13	4	18	1	20	3	38	5	27	6
6	4	5	6	7	3	28	25	4	3	1	5	1	2	1	4	3	4	2	3
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	2	..	1	..
..	..	2	..	..	..	2	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	..	1	..	..	1
..	..	..	..	..	..	1	1	1	..	1	..	..	..	..	..	..	1	..	..
1	1	..	..	..	..	21	23	3	..	1	..	2	1	2	1	2	..	5	..
..	1	1	..	..	..	5	2	14	2	10	1	10	..	15	1	19	..	18	..

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	*Women.*												
	Puerperal convulsions	..	1	..	1	..	1	..	..	..	..	..	..
	Puerperal mania	..	..	..	..	..	..	..	..	..	..	..	..
	Miscarriage and abortion	..	9	..	2	..	..	..	..	..	..	..	..
	Phlegmasia dolens	..	..	..	..	..	..	..	..	..	..	..	..
	Placenta prævia	..	4	..	2	..	..	..	..	..	..	..	..
	Other developmental diseases of women	..	3	..	..	..	..	..	..	..	..	..	..
	Total developmental diseases of women	..	49	..	13	..	3	..	..	..	2	..	..
3	*Age.*												
	Senile gangrene	..	..	..	..	..	..	..	..	2	1	1	2
	Senile debility (old age)	..	..	..	..	..	..	..	3	1	6	7	10
	Total diseases of old age	..	..	..	..	..	..	..	3	3	7	8	12
4	*Nutrition.*												
	Atrophy	..	..	..	..	..	..	..	..	..	..	..	..
	Asthenia (debility)	..	..	..	..	..	..	..	..	..	..	..	..
	Total diseases of nutrition	..	..	..	..	..	..	..	..	..	..	..	..
	Total developmental class	..	49	..	13	..	3	..	3	3	9	8	12
1	*Accident and Negligence.*												
	Fractures and contusions	19	..	19	5	17	1	13	3	6	..	2	..
	Wounds by gunshot	..	..	..	..	1	..	..	..	1	..	..	..
	Wounds, others	3	..	..	..	1	..	1	..	..	..	..	..
	Killed by vehicles in the street	5	..	5	..	10	1	3	..	2	..	2	1
	Fall	40	5	28	10	29	10	26	12	18	7	12	4
	Burns and scalds	1	1	2	2	..	1	2	2	..	..	3	2
	Poison by lead	1	..	..	..	..	..	1	..	..	..	..	..
	Poison by carbolic acid	..	..	..	..	..	..	..	..	..	..	..	..
	Poison by hydrate of chloral	1	..	..	..	..	..	..	..	1	..	..	..
	Poison by opium	..	1	..	..	..	..	1	..	1	..	1	2
	Poison by other means	..	..	..	..	..	1	..	..	1	..	1	1
	Suffocation (asphyxia by)	1	2	7	..	1	..	4	1	1	1	2	1
	Drowning	22	2	27	2	27	2	11	1	8	..	3	1

and Color—Year 1887—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21	21
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	43	43
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	15
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	16
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	310	310
5	2	1	..	1	..	2	..	1	..	..	..	..	..	..	..	13	5	18
13	29	25	49	44	55	31	60	23	53	7	23	8	12	4	5	163	305	468
18	31	26	49	45	55	33	60	24	53	7	23	8	12	4	5	176	310	486
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	10	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	48	51	99
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	58	61	119
18	31	26	49	45	55	33	60	24	53	7	23	8	12	4	5	936	1,250	2,186
3	1	1	1	..	..	1	..	..	..	..	1	..	..	..	..	168	15	183
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	19	2	21
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	..	13
1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	72	10	82
5	5	1	2	2	4	2	3	3	..	..	..	..	..	..	..	334	119	453
..	1	1	4	1	1	..	..	..	..	..	..	..	..	..	..	50	60	110
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	..	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	6	12
1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	7	4	11
..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	53	31	84
1	1	1	..	1	..	..	..	..	..	..	..	..	..	..	..	192	15	207

Order.	Causes of Death.	Nativity.				Colored.		Under 1 Year.		1	
		United States.		Foreign.							
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Accident and Negligence.*										
	Neglect and exposure	1	..	3	..	1	..	..	..	..	..
	Surgical operations	15	32	9	31	3	3	3	..	..	..
	Electric shock	2	..	..	..	..	..	..	..	..	..
	Shock from fright	..	1	..	..	..	..	..	..	..	..
	Abortion	..	2	..	3	..	..	..	..	..	..
	Other accidents and negligence	..	..	1	1	..	..	..	..	..	..
	Total accident and negligence	429	167	527	165	11	9	31	24	17	19
2	*Homicide.*										
	By gunshot	7	3	8	1	..	..	..	..	..	..
	By blows	7	1	13	1	1	..	..	1	..	..
	By cut, stab	5	2	12	1	1	..	1	..	..	..
	By criminal abortion	..	2	..	1	..	..	..	..	..	..
	By burns	..	..	..	1	..	..	..	..	..	..
	By other means	..	2	2	1	..	..	..	..	..	..
	Total homicidal deaths	19	10	35	6	2	..	1	1	..	..
3	*Suicide.*										
	By poisons	9	11	31	15	..	..	..	..	..	..
	By drowning	..	1	11	4	..	..	..	..	..	..
	By hanging	3	..	95	10	..	..	..	..	..	..
	By leap	3	1	10	2	..	..	..	..	..	..
	By gunshot	12	2	54	..	..	..	..	..	..	..
	By cutting	4	2	15	3	1	..	..	..	..	..
	By illuminating gas	3	..	1	..	..	..	..	..	..	..
	By other means	1	..	1	..	..	..	..	..	..	..
	Total suicidal deaths	35	17	148	35	1	..	..	..	..	..
4	*Execution.*										
	Name of criminal executed: Peter F. Smith, May 5	1	..	..	..	..	..	..	..	..	..
	Total violent deaths	484	194	710	206	14	9	32	25	17	19
	Total deaths at all ages and from all causes	13,329	11,577	7,668	6,359	452	402	5,578	4,505	1,686	1,552

and Color—Year 1887—(Continued).

2		3		4		Total Under 5 Years.		5		10		15		20		25		30	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	3	..	1	2	1	..	2	1	..	4	2	12	1	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	3	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	11	20	21	15	7	97	82	69	20	49	11	49	7	62	16	105	27	81	23
..	..	..	..	..	..	..	..	..	..	1	..	3	1	1	1	1	..	2	.
..	..	..	..	..	..	..	1	3	..	1	..	..	..	..	..	1	..	4	..
..	..	..	..	..	..	1	..	..	..	..	..	..	1	7	..	3	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	1	1	3	1	2	..	3	3	8	2	6	2	6	..
..	..	..	..	..	..	..	..	..	..	..	..	2	5	5	8	5	2	2	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	3	1
..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	..	..	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	3	1	2	1
..	..	..	..	..	..	..	..	..	..	..	..	2	1	8	..	11	..	5	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	9	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	7	6	16	9	23	4	25	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
14	11	20	21	15	7	98	83	72	21	51	11	59	16	86	27	134	33	113	32
859	796	548	563	360	319	9,031	7,735	685	691	257	231	430	343	847	773	1,091	913	1,066	812

Order.	Causes of Death.	35		40		45		50		55		60	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	*Accident and Negligence.*												
	Neglect and exposure	1	..	..	..	..	..	1	..	..	..	..	..
	Surgical operations	1	7	2	7	2	6	1	4	4	5	1	2
	Electric shock	1	..	..	..	..	..	..	..	..	..	..	..
	Shock from fright	..	..	..	1	..	..	..	..	..	..	..	..
	Abortion	..	..	..	..	..	..	..	..	..	..	..	..
	Other accidents and negligence	..	..	..	..	..	..	..	..	1	..	..	..
	Total accident and negligence	96	18	90	27	88	22	64	23	44	13	27	14
2	*Homicide.*												
	By gunshot	1	2	1	..	1	..	2	..	2	..	..	..
	By blows	5	..	3	..	2	..	..	1	..	..	1	..
	By cut, stab	2	..	2	2	1	..	1	..	..	..	..	..
	By criminal abortion	..	..	..	..	..	..	..	..	..	..	..	..
	By burns	..	..	..	..	..	..	..	..	..	..	..	..
	By other means	1	..	..	..	..	1	..	1	..	..	..	..
	Total homicidal deaths	9	2	6	2	4	1	3	2	2	..	1	..
3	*Suicide.*												
	By poisons	8	3	4	1	4	1	3	3	1	..	2	..
	By drowning	..	..	3	1	..	2	3	..	..	..	..	..
	By hanging	3	1	5	..	3	2	3	2	3	1	2	1
	By leap	2	1	..	..	3	..	1	..	..	..	..	1
	By gunshot	11	..	6	..	8	..	1	..	10	..	1	..
	By cutting	3	1	..	1	..	..	..	..	..	..	..	2
	By illuminating gas	..	..	..	..	..	..	1	..	..	..	..	..
	By other means	1	..	..	..	..	..	..	..	..	..	1	..
	Total suicidal deaths	28	6	18	3	18	5	12	5	14	1	6	4
4	*Execution.*												
	Name of criminal executed : Peter F. Smith, May 5	..	..	..	..	..	..	..	..	..	..	..	..
	Total violent deaths	133	26	114	32	110	28	79	30	60	14	34	18
	Total deaths at all ages and from all causes	1,165	858	1,140	760	1,006	742	952	749	819	639	765	698

and Color—Year 1887—(Continued).

65		70		75		80		85		90		95		100 and Upwards.		Total by Sexes.		Total Both Sexes.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	4
1	3	2	..	..	..	..	..	..	..	..	..	..	..	..	..	24	63	87
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5
..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	1	2
16	12	7	7	4	6	4	3	4	..	..	1	..	..	..	..	956	332	1,288
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	4	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	2	22
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17	3	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	54	16	70
2	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	40	26	66
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	5	16
2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	28	10	38
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	4	17
2	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	66	2	68
4	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	19	5	24
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
11	..	2	..	3	..	..	..	..	..	..	..	..	..	..	..	183	52	235
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
27	12	9	7	7	6	4	3	4	..	..	1	..	..	..	..	1,194	400	1,594
659	606	430	489	324	411	183	264	108	139	22	54	12	22	5	7	20,997	17,936	38,933

Causes of Death.	Total Number of Deaths.	Total Males.	Total Females.	Native.		Foreign.		Colored.		Under 1 Year.	
				M.	F.	M.	F.	M.	F.	M.	F.
I.—General Diseases A.											
Specific Febrile (Zymotic) Diseases.											
Small-pox	81	58	23	39	18	19	5	1	..	8	5
Chicken-pox	5	1	4	1	4	..	..	..	..	..	2
Measles	591	325	266	300	239	25	27	3	3	100	87
Scarlatina	1,361	689	672	631	634	58	38	3	5	48	39
Diphtheria	1,914	975	939	914	874	61	65	8	7	66	79
Mumps	6	3	3	3	3	..	..	..	..	2	2
Whooping-cough	573	238	335	233	329	5	6	11	12	119	163
Fever, enteric	364	235	129	105	63	130	66	2	3	..	1
Fever, typhus	4	3	1	1	..	2	1	..	..	..	..
Fever, malarial	266	149	117	106	77	43	40	3	2	9	6
Fever, continued	4	4	..	1	..	3	..	..	..	..	..
Fever, yellow	3	3	..	..	..	3	..	..	..	..	..
Cerebro-spinal meningitis	173	98	75	87	67	11	8	1	..	23	18
Cholera, Asiatic	..	..	..	..	..	..	..	..	..	..	..
Cholera morbus	72	36	36	14	10	22	26	2	..	3	2
Cholera infantum	1,578	824	754	809	741	15	13	24	21	694	627
Diarrhœa, entero-colitis	1,637	839	798	758	665	81	133	13	14	619	533
Dysentery	202	97	105	54	59	43	46	3	2	27	26
Glanders	1	1	..	..	..	1	..	..	..	..	..
Malignant pustule	1	1	..	..	..	1	..	..	..	..	..
Erysipelas	175	86	89	53	63	33	26	..	1	42	45
Pyæmia, septicæmia	29	19	10	6	7	13	3	..	..	1	4
Syphilis	178	113	65	96	55	17	10	5	4	71	50
Other zymotic diseases	2	..	2	..	2	..	..	..	..	..	..
Total specific febrile (zymotic) diseases	9,220	4,797	4,423	4,211	3,910	586	513	79	74	1,832	1,689
II.—General Diseases B.											
Constitutional.											
Rheumatism	233	108	125	39	37	69	88	3	2	2	1
Gout	6	4	2	1	1	3	1	..	..	..	..
Cancer	870	284	586	55	152	229	434	4	9	..	..
Phthisis	5,260	3,013	2,247	1,355	1,096	1,658	1,151	107	77	39	40
Scrofula, tuberculosis	129	69	60	52	54	17	6	2	4	28	25

Race and Age—Year ending December 31, 1888.

1 Year and Under 2.		2 and Under 5.		Total Under 5.		5 and Under 15.		15 and Under 25.		25 and Under 45.		45 and Under 65.		65 and Over.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
4	3	4	4	16	12	3	3	10	1	27	4	2	2	..	1
1	1	..	1	1	4	..	..	..	..	..	..	..	..	..	..
116	103	87	63	303	253	19	8	..	2	3	2	..	1	..	..
113	100	347	351	508	490	163	173	11	3	7	6	..	..	..	..
222	204	470	438	758	721	191	202	12	10	10	4	2	2	2	..
1	1	..	..	3	3	..	..	..	..	..	..	..	..	..	..
58	89	47	65	224	317	14	17	..	..	..	1	..	..	..	..
1	..	9	2	10	3	18	21	80	44	97	43	26	14	4	4
..	..	..	..	..	..	..	..	..	..	3	..	..	1	..	..
10	6	23	16	42	28	17	16	20	18	42	28	19	23	9	4
1	..	..	..	1	..	..	..	..	..	1	..	2	..	..	..
..	..	..	..	..	..	..	..	..	..	2	..	1	..	..	..
16	10	20	16	59	44	21	21	9	5	4	3	3	1	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	2	2	7	4	2	1	3	3	8	9	11	15	5	4
111	108	16	18	821	753	3	1	..	..	..	..	..	..	..	..
97	87	20	24	736	644	6	10	2	7	24	24	37	50	34	63
11	12	6	4	44	42	1	1	5	5	16	20	22	22	9	15
..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
1	3	1	..	44	48	..	1	5	4	15	10	15	13	7	13
1	1	1	..	3	5	..	1	2	1	9	1	4	2	1	..
2	1	1	2	74	53	1	..	4	1	23	6	10	2	1	3
..	1	..	..	..	1	..	..	..	..	..	..	..	1	..	..
768	730	1,054	1,006	3,654	3,425	459	476	163	104	293	161	154	149	74	108
..	..	3	3	5	4	8	17	14	11	31	23	35	44	15	26
..	..	..	..	..	..	..	..	..	..	..	1	2	1	2	..
1	1	1	1	2	2	1	1	1	9	57	160	157	304	66	110
16	18	23	18	78	76	34	66	480	523	1,631	1,111	682	379	108	92
9	13	10	8	47	46	4	6	5	3	10	3	2	1	1	1

Causes of Death.	Total Number of Deaths.	Total Males.	Total Females.	Native.		Foreign.		Colored.		Under 1 Year.	
				M.	F.	M.	F.	M.	F.	M.	F.
Constitutional.											
Tabes mesenterica	71	40	31	39	31	1	..	1	2	30	22
Rickets	20	10	10	10	9	..	1	2	..	4	1
Anæmia, chlorosis, leucocythæmia	45	24	21	12	10	12	11	..	..	8	2
Tubercular meningitis	524	302	222	282	211	20	11	8	6	122	83
Purpura, hæmophilia	29	17	12	15	8	2	4	..	..	10	7
Diabetes	117	61	56	21	21	40	35	..	1	..	..
Other constitutional diseases	48	20	28	9	10	11	18	..	1	1	..
Total constitutional diseases	7,352	3,952	3,400	1,890	1,640	2,062	1,760	127	102	244	181
III.—Local Diseases.											
Nervous System.											
Hydrocephalus	171	95	76	93	75	2	1	2	1	57	47
Meningitis and encephalitis	914	474	440	394	385	80	55	8	7	162	158
Apoplexy	825	441	384	134	113	307	271	7	16	5	6
Softening of brain	78	47	31	19	9	28	22	..	1	..	..
Myelitis	45	31	14	8	5	23	9	1	..	..	..
Locomotor ataxy	33	25	8	6	3	19	5	1	..	..	..
Progressive muscular atrophy	2	2	..	..	..	2	..	..	..	..	..
Paralysis, hemiplegia, paraplegia	195	111	84	38	31	73	53	4	2	1	2
Bulbar paralysis	3	1	2	..	1	1	1	..	..	..	..
Convulsions	614	366	248	362	247	4	1	4	8	281	197
Laryngismus stridulus	16	12	4	12	4	..	..	..	1	10	2
Tetanus, trismus	72	49	23	40	23	9	..	..	1	35	23
Chorea	4	4	..	3	..	1	..	..	..	..	..
Epilepsy	110	62	48	41	35	21	13	1	..	9	5
Insanity, general paresis	249	139	110	48	34	91	76	3	1	..	..
Other diseases of nervous system	198	103	95	67	76	36	19	..	1	28	25
Total diseases of nervous system	3,529	1,958	1,571	1,262	1,044	696	527	31	39	588	465
Eye, Ear and Nose.											
Epistaxis, disease of nose	2	2	..	1	..	1	..	..	..	..	..
Otitis, otorrhœa, mastoid abscess	51	34	17	21	15	13	2	..	2	9	2
Other diseases of eye, ear and nose	1	1	..	1	..	..	..	..	..	1	..
Total diseases of eye, ear and nose	54	37	17	23	15	14	2	..	2	10	2

and Age—Year ending December 31, 1888—(Continued.)

1 Year and Under 2.		2 and Under 5.		Total Under 5.		5 and Under 15.		15 and Under 25.		25 and Under 45.		45 and Under 65.		65 and Over.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
6	6	3	2	39	30	1	..	..	..	..	1	..	..	..	..
3	4	3	5	10	10	..	..	..	..	..	..	..	..	..	..
2	1	..	..	10	3	..	1	1	2	3	7	9	7	1	..
74	48	59	54	255	185	27	26	6	5	9	5	4	1	1	..
1	..	2	..	13	7	..	1	1	..	2	1	1	3	..	..
..	..	1	..	1	..	2	2	2	2	10	8	27	29	19	15
1	..	..	..	2	..	..	2	4	..	3	8	4	15	7	3
113	91	105	91	462	363	77	122	514	555	1,756	1,328	923	784	220	248
22	23	13	6	92	76	2	..	1	..	..	..	..	..	..	..
107	87	70	83	339	328	36	38	11	17	44	26	30	17	14	14
3	3	..	1	8	10	1	1	4	7	93	56	187	171	148	139
..	..	..	..	..	..	..	..	..	2	7	1	20	11	20	17
..	..	..	..	..	..	..	..	3	1	14	6	8	6	6	1
..	..	..	..	..	..	..	..	..	..	8	3	8	5	9	..
..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..
1	..	..	..	2	2	4	..	..	1	22	9	38	30	45	42
..	..	..	..	..	..	..	..	..	..	..	2	1	..	..	..
60	31	21	18	362	246	4	2	..	..	..	..	..	..	..	..
2	1	..	1	12	4	..	..	..	..	..	..	..	..	..	..
..	..	..	..	35	23	1	..	3	..	8	..	..	..	2	..
..	..	..	..	..	..	..	2	..	..	..	2	..	..	..	..
3	3	3	4	15	12	1	12	14	9	21	6	9	4	2	5
..	..	..	..	..	..	..	..	8	9	70	39	47	35	14	27
9	15	7	6	44	46	8	4	3	5	11	17	25	17	12	6
207	163	114	119	909	747	58	59	47	51	299	167	373	295	272	251
..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..
1	3	2	4	12	9	4	4	3	3	9	..	6	..	..	1
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
1	3	2	4	13	9	5	4	3	3	9	..	7	..	..	1

Causes of Death.	Total Number of Deaths.	Total Males.	Total Females.	Native.		Foreign.		Colored.		Under 1 Year.	
				M.	F.	M.	F.	M.	F.	M.	F.
Circulatory System.											
Pericarditis	65	41	24	15	10	26	14	1	1	..	..
Endocarditis, valvular disease of heart	1,197	590	607	242	245	348	362	21	23	11	4
Hypertrophy of heart	108	61	47	28	20	33	27	3	1	1	..
Fatty degeneration of heart	149	73	76	24	24	49	52	1	2	..	..
Heart disease	302	164	138	53	46	111	92	..	9	4	3
Aneurism	70	52	18	19	3	33	15	2	..	..	..
Angina pectoris	50	38	12	13	4	25	8	..	1	..	..
Embolism, thrombosis, phlebitis	42	20	22	8	12	12	10	..	2	2	1
Senile gangrene	18	8	10	1	3	7	7	..	..	..	..
Other diseases of circulatory system	50	25	25	7	13	18	12	2	1	..	2
Total diseases of circulatory system	2,051	1,072	979	410	380	662	599	30	40	18	10
Lymphatic System and Ductless Glands.											
Lymphadenoma (Hodgkin's disease)	8	3	5	2	4	1	1	..	..	1	3
Exophthalmic goitre (Basedow's disease)	4	2	2	..	..	2	2	..	..	..	..
Addison's disease	6	5	1	1	..	4	1	..	..	..	..
Other diseases of lymphatic system and ductless glands	5	3	2	3	1	..	1	..	..	1	..
Total diseases of lymphatic system	23	13	10	6	5	7	5	..	..	2	3
Respiratory System.											
Croup	639	346	293	331	285	15	8	3	2	54	39
Œdema of glottis	5	3	2	2	2	1	..	1	..	1	1
Laryngitis	68	37	31	32	30	5	1	..	..	5	8
Bronchitis	1,892	955	937	719	633	236	304	20	34	518	398
Pleurisy, hydrothorax, empyema	153	89	64	47	41	42	23	5	1	9	8
Pneumonia	4,288	2,422	1,866	1,455	1,189	967	677	51	54	480	435
Congestion of lungs	103	53	50	39	32	14	18	..	1	25	24
Hæmorrhage of lungs	32	21	11	12	6	9	5	1	1	2	1
Emphysema and asthma	88	44	44	9	9	35	35	2	1	..	..
Other diseases of respiratory system	46	25	21	11	9	14	12	1	..	5	4
Total diseases of respiratory system	7,314	3,995	3,319	2,657	2,236	1,338	1,083	84	94	1,099	918

and Age—Year ending December 31, 1888—(Continued).

1 Year and Under 2.		2 and Under 5.		Total Under 5.		5 and Under 15.		15 and Under 25.		25 and Under 45.		45 and Under 65.		65 and Over.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	4	1	4	1	3	1	4	3	19	8	7	10	4	1
1	2	5	6	17	12	30	43	58	71	176	150	208	199	101	132
..	..	..	..	1	..	5	3	4	4	20	10	22	16	9	14
..	..	..	..	..	..	..	..	1	2	13	10	46	33	13	31
..	..	..	1	4	4	6	5	10	7	38	24	64	52	42	46
..	..	..	..	..	..	..	1	4	1	20	5	24	10	4	1
..	..	..	..	..	..	..	..	..	1	13	1	17	8	8	2
..	..	..	..	2	1	..	..	2	2	5	5	6	8	5	6
..	..	..	..	..	..	..	..	..	..	..	..	3	2	5	8
..	..	..	..	..	2	1	..	1	2	10	8	9	5	4	8
1	2	9	8	28	20	45	53	84	93	314	221	406	343	195	249
..	..	..	..	1	3	1	..	..	1	..	1	1	..	..	..
..	..	..	..	..	..	..	..	..	..	2	2	..	..	..	..
..	..	..	..	..	..	..	..	..	..	4	..	1	1	..	..
..	1	1	..	2	1	1	..	..	..	..	1	..	..	..	..
..	1	1	..	3	4	2	..	..	1	6	4	2	1	..	..
103	80	156	139	313	258	33	34	..	1	..	..	..	..	..	..
..	..	..	1	1	2	..	..	..	..	2	..	..	..	..	..
6	10	16	10	27	28	4	1	..	1	2	1	3	..	1	..
102	115	49	63	669	576	14	13	13	8	36	47	106	101	117	192
4	4	5	3	18	15	2	7	8	8	28	18	22	10	11	6
286	232	218	177	984	844	87	81	150	76	537	305	481	334	183	226
3	2	1	1	29	27	1	1	4	..	3	5	7	8	9	9
..	..	..	..	2	1	..	..	2	2	11	1	5	4	1	3
..	..	..	..	..	..	..	..	..	1	5	9	26	10	13	24
1	1	..	..	6	5	..	..	1	1	9	6	7	4	2	5
505	444	445	394	2,049	1,756	141	137	178	98	633	392	657	471	337	465

Causes of Death.	Total Number of Deaths.	Total Males.	Total Females.	Native.		Foreign.		Colored.		Under 1 Year.	
				M.	F.	M.	F.	M.	F.	M.	F.
Digestive System.											
Stomatitis	10	3	7	3	7	..	..	..	..	1	3
Gangrene of mouth (noma)	4	3	1	3	..	..	1	..	..	..	..
Tonsilitis, quinsy	27	20	7	17	6	3	1	..	..	4	2
Gastritis	189	80	109	50	56	30	53	3	4	26	17
Gastro-enteritis	685	348	337	313	296	35	41	6	5	256	231
Ulcer of stomach	47	27	20	11	10	16	10	1	2	..	..
Dyspepsia	13	5	8	4	5	1	3	..	..	3	5
Enteritis	193	100	93	80	74	20	19	1	3	58	52
Obstruction of intestines	78	37	41	20	16	17	25	2	2	6	5
Typhlitis, perityphlitis, perforation of appendix vermiformis	72	47	25	33	15	14	10	..	..	..	..
Hernia	89	41	48	15	8	26	40	..	..	9	1
Hepatitis	102	41	61	15	15	26	46	1	..	1	1
Cirrhosis	261	160	101	48	26	112	75	1	..	..	..
Other diseases of liver	69	38	31	19	9	18	22	..	..	3	..
Jaundice	30	19	11	16	9	3	2	..	..	16	8
Gall-stones, biliary colic, etc.	33	17	16	13	9	4	7	1	..	9	4
Peritonitis	213	78	135	49	56	29	79	2	3	5	7
Other diseases of digestive system.	158	96	62	46	33	50	29	..	1	18	10
Total diseases of digestive system	2,273	1,160	1,113	755	650	405	463	18	21	415	346
Urinary System.											
Acute nephritis	1,195	684	511	278	192	406	319	18	16	9	10
Bright's disease, albuminuria	1,147	585	562	231	206	354	356	11	16	1	4
Uræmia, suppression of urine	50	28	22	15	11	13	11	..	1	3	3
Cystitis	47	39	8	9	3	30	5	1	..	..	..
Calculus	19	15	4	6	2	9	2	..	..	..	..
Other diseases of urinary system.	37	27	10	9	3	18	7	1	..	..	1
Total diseases of urinary system.	2,495	1,378	1,117	548	417	830	700	31	33	13	18
Generative System (Male).											
Stricture of urethra	5	5	..	3	..	2	..	..	..	1	..
Diseases of prostate gland	19	19	..	8	..	11	..	1	..	..	..
Other diseases of generative system (male)	6	6	..	2	..	4	..	..	..	..	..
Total diseases of generative system (male).	30	30	..	13	..	17	..	1	..	1	..

and Age—Year ending December 31, 1888—(Continued).

1 Year and Under 2.		2 and Under 5.		Total Under 5.		5 and Under 15.		15 and Under 25.		25 and Under 45.		45 and Under 65.		65 and Over.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	3	..	1	3	7	..	..	..	..	..	..	..	..	..	..
1	..	2	..	3	..	..	..	..	1	..	..	..	..	..	..
1	1	5	3	10	6	5	..	..	1	5	..	..	..	..	..
6	5	4	8	26	30	4	4	..	5	18	29	12	22	10	19
49	46	14	18	319	295	1	3	3	4	7	9	11	15	7	11
..	..	..	..	..	..	..	..	4	4	7	6	12	9	4	1
..	..	..	..	3	5	..	..	..	..	..	..	2	2	..	1
15	14	3	4	76	70	4	2	5	..	4	9	4	5	7	7
..	1	1	2	7	8	1	..	5	2	8	10	12	14	4	7
..	..	1	..	1	..	10	6	12	5	16	11	5	2	3	1
1	..	..	..	10	1	..	..	..	..	12	9	13	29	6	9
..	1	..	1	1	3	1	..	1	..	20	21	15	28	3	9
..	..	..	..	..	..	..	1	5	4	50	35	83	46	22	15
..	..	..	..	3	..	..	1	3	1	13	12	12	10	7	7
..	..	..	1	16	9	..	..	..	..	..	..	..	2	3	..
1	..	..	..	10	4	..	..	..	1	3	3	4	4	..	4
..	1	4	5	9	13	13	15	16	20	21	51	12	27	7	9
3	1	4	1	25	12	1	1	6	5	24	21	24	15	16	8
79	73	38	44	532	463	40	33	60	53	208	226	221	230	99	108
9	5	28	23	46	38	29	25	21	21	242	151	240	170	106	106
2	1	10	7	13	12	18	14	33	41	171	178	244	222	106	95
1	4	2	..	6	7	..	2	3	2	10	4	5	6	4	1
..	..	..	..	..	..	..	..	1	1	5	..	11	3	22	4
..	..	..	..	..	..	1	..	1	..	4	2	5	..	4	2
..	..	..	..	..	1	1	..	2	2	7	2	6	3	11	2
12	10	40	30	65	58	49	41	61	67	439	337	511	404	253	210
..	..	..	..	1	..	..	..	..	..	2	..	1	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	2	..	17	..
..	..	..	..	..	..	1	..	2	..	1	..	2	..	..	..
..	..	..	..	1	..	1	..	2	..	3	..	5	..	18	..

Causes of Death.	Total Number of Deaths.	Total Males.	Total Females.	Native.		Foreign.		Colored.		Under 1 Year.	
				M.	F.	M.	F.	M.	F.	M.	F.
Generative System (Female).											
Ovarian tumors, cysts, etc.	30	..	30	..	18	..	12	..	2	..	..
Inflammations of uterus	1	..	1	..	1	..	..	..	..	..	..
Uterine tumors, except cancer	21	..	21	..	12	..	9	..	4	..	..
Pelvic cellulitis	8	..	8	..	4	..	4	..	..	..	..
Other diseases of generative system (female)	43	..	43	..	25	..	18	..	4	..	..
Total diseases of generative system (female)	103	..	103	..	60	..	43	..	10	..	..
Pregnancy and Childbirth.											
Abortion, miscarriage	41	..	41	..	15	..	26	..	..	..	..
Extra-uterine pregnancy	3	..	3	..	1	..	2	..	..	..	..
Puerperal convulsions	36	..	36	..	22	..	14	..	3	..	..
Puerperal mania	5	..	5	..	4	..	1	..	..	..	..
Rupture of uterus	1	..	1	..	1	..	..	..	..	..	..
Placenta prævia	12	..	12	..	4	..	8	..	1	..	..
Post-partum hæmorrhage	26	..	26	..	9	..	17	..	..	..	..
Puerperal fever (metritis, peritonitis, etc.)	246	..	246	..	73	..	173	..	3	..	..
Other diseases of pregnancy and childbirth	72	..	72	..	36	..	36	..	1	..	..
Total diseases of pregnancy and childbirth.	442	..	442	..	165	..	277	..	8	..	..
Organs of Locomotion.											
Caries and necrosis	24	14	10	3	5	11	5	1	..	..	..
Arthritis, osteitis, osteo-myelitis, etc.	8	7	1	2	1	5	..	..	..	1	..
Psoas and lumbar abscess	13	7	6	2	3	5	3	..	..	..	1
Spinal disease	50	34	16	30	13	4	3	2	1	..	..
Hip disease	26	17	9	13	6	4	3	1	..	1	..
Other diseases of locomotor system.	11	4	7	..	1	4	6	..	..	..	1
Total diseases of locomotor system.	132	83	49	50	29	33	20	4	1	2	2
Integumentary System.											
Abscesses	40	17	23	8	18	9	5	1	..	2	11
Ulcers, phagedœna	14	3	11	1	4	2	7	..	..	..	1
Pemphigus	3	1	2	1	2	..	..	..	..	1	1

and Age—Year ending December 31, 1888—(Continued).

1 Year and Under 2.		2 and Under 5.		Total Under 5.		5 and Under 15.		15 and Under 25.		25 and Under 45.		45 and Under 65.		65 and Over.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	4	..	12	..	9	..	5
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	11	..	8	..	2
..	..	..	..	..	..	..	..	..	2	..	3	..	3	..	..
..	..	..	..	..	..	..	..	..	9	..	29	..	4	..	1
..	..	..	..	..	..	..	..	..	15	..	56	..	24	..	8
..	..	..	..	..	..	..	..	..	12	..	29	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	3	..	..	..	..
..	..	..	..	..	..	..	..	..	17	..	19	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	5	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	2	..	9	..	1	..	..
..	..	..	..	..	..	..	..	..	3	..	23	..	..	..	..
..	..	..	..	..	..	..	..	..	78	..	165	..	3	..	..
..	..	..	..	..	..	..	..	..	21	..	51	..	..	..	..
..	..	..	..	..	..	..	..	..	133	..	305	..	4	..	..
..	..	..	..	..	..	..	1	1	2	5	5	8	..	..	2
..	..	..	..	1	..	..	1	..	..	3	..	2	..	1	..
..	1	..	..	..	2	1	1	4	..	1	2	1	1	..	..
1	..	5	5	6	5	18	6	5	4	3	1	..	..	2	..
..	..	2	..	3	..	10	4	1	3	3	1	..	1	..	..
..	..	..	..	..	1	..	1	..	1	1	3	2	..	1	1
1	1	7	5	10	8	29	14	11	10	16	12	13	2	4	3
..	1	3	3	5	15	2	2	2	1	6	1	1	3	1	1
..	..	..	..	..	1	..	..	..	1	..	1	2	3	1	5
..	1	..	..	1	2	..	..	..	..	..	..	..	..	..	..

Causes of Death.	Total Number of Deaths.	Total Males.	Total Females.	Native.		Foreign.		Colored.		Under 1 Year.	
				M.	F.	M.	F.	M.	F.	M.	F.
Integumentary System.											
Eczema	20	13	7	12	6	1	1	..	..	9	5
Carbuncle	8	5	3	3	..	2	3	..	..	..	..
Elephantiasis	1	1	..	..	..	1	..	..	..	..	..
Other diseases of integumentary system	26	12	14	7	7	5	7	..	..	4	2
Total diseases of integumentary system	112	52	60	32	37	20	23	1	..	16	20
Total local diseases	18,558	9,778	8,780	5,756	5,038	4,022	3,742	200	248	2,164	1,784
IV.—Developmental Diseases.											
Premature birth	670	385	285	385	285	..	..	6	8	385	284
Atelectasis	176	108	68	108	68	..	..	1	..	108	68
Umbilical hæmorrhage	15	8	7	8	7	..	..	..	2	8	7
Cyanosis	158	85	73	85	73	..	..	2	3	81	70
Debility	123	66	57	63	52	3	5	1	2	62	51
Old age	582	213	369	51	89	162	280	10	12	..	..
Total developmental diseases	1,724	865	859	700	574	165	285	20	27	644	480
V.—Poisons.											
Arsenic	4	..	4	..	1	..	3	..	..	..	..
Alcohol — Alcoholism	203	160	43	69	17	91	26	2	3	..	..
Alcohol — Delirium tremens	7	6	1	1	1	5	..	..	..	..	..
Lead	14	7	7	4	5	3	2	..	..	1	1
Opium	23	17	6	8	1	9	5	..	..	..	..
Illuminating gas	19	11	8	5	4	6	4	..	..	1	..
Other poisons	270	201	69	87	29	114	40	2	3	2	1
Total deaths by poison											
VI.—Injuries.											
Accident and Negligence.											
Burns, scalds	122	54	68	39	39	15	29	..	3	5	2
Drowning	173	164	9	45	6	119	3	2	..	1	..
Falls	391	312	79	132	31	180	48	4	..	4	..
Fractures, contusions	155	138	17	55	7	83	10	3	..	1	..

and Age—Year ending December 31, 1888—(Continued),

1 Year and Under 2.		2 and Under 5.		Total Under 5.		5 and Under 15.		15 and Under 25.		25 and Under 45.		45 and Under 65.		65 and Over.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	1	..	..	11	6	1	..	..	..	..	..	..	..	1	1
..	..	..	..	..	..	..	..	1	..	1	..	1	2	2	1
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	1	1	..	5	3	..	..	..	..	4	3	1	3	2	5
2	4	4	3	22	27	3	2	3	2	11	5	6	11	7	13
808	701	660	607	3,632	3,092	373	343	449	526	1,938	1,725	2,201	1,786	1,185	1,308
..	1	..	..	385	285	..	..	..	..	..	..	..	..	..	..
..	..	..	..	108	68	..	..	..	..	..	..	..	..	..	..
..	..	..	..	8	7	..	..	..	..	..	..	..	..	..	..
2	2	..	..	83	72	2	..	..	1	..	..	..	..	..	..
1	..	..	..	63	51	..	..	..	..	..	..	2	2	1	4
..	..	..	..	..	..	..	..	..	..	..	..	12	27	201	342
3	3	..	..	647	483	2	..	..	1	..	..	14	29	202	346
..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	1
..	..	..	..	..	..	..	..	6	3	102	25	48	13	4	2
..	..	..	..	..	..	..	..	..	1	5	..	1	..	..	..
..	..	..	..	1	1	..	..	..	..	3	4	3	2	..	..
..	..	..	..	..	..	..	..	..	4	11	1	5	1	1	..
1	..	1	..	3	..	..	..	2	4	2	1	3	2	1	1
1	..	1	..	4	1	..	..	8	12	123	33	60	19	6	4
9	5	17	10	31	17	3	8	4	13	8	17	4	9	4	4
..	2	1	1	2	3	19	..	22	3	79	1	32	2	10	..
8	5	21	8	33	13	37	11	35	6	114	18	84	19	19	12
..	..	1	3	2	3	10	1	18	1	71	2	30	4	7	6

Deaths in New York City by Cause, Sex, Nativity, Race

Causes of Death.	Total Number of Deaths.	Total Males.	Total Females.	Native.		Foreign.		Colored.		Under 1 Year.	
				M.	F.	M.	F.	M.	F.	M.	F.
Accident and Negligence.											
Killed by explosions	3	3	..	..	..	3	..	..	..	..	..
Killed on railroads	64	59	5	25	2	34	3	..	..	..	..
Killed by vehicles in street	55	45	10	24	4	21	6	..	..	..	..
Suffocation	82	48	34	22	25	26	9	..	..	17	20
Wounds	26	18	8	10	6	8	2	..	..	2	2
Neglect, exposure	14	10	4	4	..	6	4	1	..	1	..
Total deaths by accident and negligence	1,085	851	234	356	120	495	114	10	3	31	24
Sunstroke	96	66	30	17	21	49	9	..	1	9	10
Suicide	247	202	45	63	22	139	23	1	..	..	..
Homicide, blows	17	13	4	4	2	9	2	..	..	..	..
Homicide, poison	2	2	..	2	..	..	..	..	..	..	..
Homicide, cuts, stabs	18	11	7	4	1	7	6	1	1	..	..
Homicide, gunshot	17	8	9	3	4	5	5	..	1	..	..
Homicide, criminal abortion	3	..	3	..	1	..	2	..	..	..	..
Total deaths by homicide	57	34	23	13	8	21	15	1	2	..	..
Total deaths by injuries	1,485	1,153	332	449	171	704	161	12	6	40	34
VII.—Surgical Operations.											
Amputations	3	..	3	..	1	..	2	..	..	..	..
Exsections	7	4	3	3	1	1	2	..	..	..	..
Circumcision	5	5	..	5	..	..	..	..	..	5	..
Laparotomy	36	2	34	2	19	..	15	..	2	..	..
Ligation of arteries	1	1	..	..	..	1	..	..	..	..	..
Operations on uterus (per vaginam)	7	..	7	..	2	..	5	..	..	..	..
Ovariotomy	14	..	14	..	7	..	7	..	..	..	..
Removal of tumors	10	3	7	2	2	1	5	..	..	..	..
Other operations	60	27	33	8	19	19	14	1	2	1	..
Total deaths by surgical operations	143	42	101	20	51	22	50	1	4	6	..

and Age—Year ending December 31, 1888—(Continued).

1 Year and Under 2.		2 and Under 5.		Total Under 5		5 and Under 15.		15 and Under 25.		25 and Under 45.		45 and Under 65.		65 and Over.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
..	..	..	..	..	..	..	..	..	..	2	..	1	..	..	..
..	..	1	..	1	..	9	1	8	..	25	2	14	1	2	1
1	..	4	1	5	1	14	2	4	..	11	..	7	5	4	2
1	..	..	2	18	22	1	1	4	2	19	6	6	3	..	..
..	..	..	1	2	3	1	1	7	2	5	2	2	..	1	..
..	..	..	..	1	..	..	..	4	..	2	1	2	2	1	1
19	12	45	26	95	62	84	25	106	27	336	49	182	45	48	26
2	1	2	1	13	12	1	3	5	1	31	4	11	5	5	5
..	..	..	..	..	..	1	..	22	14	87	21	80	8	12	2
..	1	..	1	..	2	2	..	3	..	5	1	2	1	1	..
..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	7	..	2	4	2	2	..	1
..	..	..	..	..	..	..	..	1	4	7	5	..	..	..	..
..	..	..	..	..	..	..	..	..	1	..	2	..	..	..	..
..	1	..	1	..	2	4	..	11	5	14	12	4	3	1	1
21	14	47	28	108	76	90	28	144	47	468	86	277	61	66	34
..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1
..	..	..	..	..	..	1	1	..	..	1	1	1	1	1	..
..	..	..	..	5	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	1	6	1	19	..	8	..	1
..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	..	..	..	..	..	..	..	..	..	..	5	..	2	..	..
..	..	..	..	..	..	..	..	..	1	..	11	..	1	..	1
..	..	..	..	..	..	..	..	1	..	1	2	1	2	..	3
..	..	1	..	2	..	..	1	3	2	7	19	11	11	4	..
..	..	1	..	7	..	1	2	5	9	10	58	14	26	5	6

Causes of Death.	Total Number of Deaths.	Total Males.	Total Females.	Native.		Foreign.		Colored.		Under 1 Year.	
				M.	F.	M.	F.	M.	F.	M.	F.
VIII.—Parasites.											
Aphthæ	29	11	18	11	18	..	..	2	1	9	17
Trichinosis	1	1	..	..	..	1	..	..	..	..	..
Other parasitic diseases	4	..	4	..	4	..	..	..	..	..	..
Total parasitic diseases	34	12	22	11	22	1	..	2	1	9	17
IX.—Congenital Malformations.											
Cleft palate	7	3	4	3	4	..	..	..	..	3	4
Foramen ovale open	1	1	..	1	..	..	..	..	..	1	..
Imperforate rectum or anus	14	7	7	7	7	..	..	..	1	7	7
Spina bifida	30	8	22	8	22	..	..	..	1	7	21
Other malformations	33	17	16	16	16	1	..	..	1	16	15
Total congenital malformations	85	36	49	35	49	1	..	..	3	34	47
X.—Unclassified.											
Inanition, marasmus, atrophy	1,149	620	529	610	518	10	11	9	15	573	477
Preternatural births	153	100	53	100	53	..	..	1	1	100	53
Total unclassified	1,302	720	582	710	571	10	11	10	16	673	530
Judicial Executions.											
Daniel Driscoll, January 23 Daniel Lyons, August 21	2	2	..	1	..	1	..	..	..	..	..
I.—Total specific febrile diseases (zymotic)	9,220	4,797	4,423	4,211	3,910	586	513	79	74	1,832	1,689
II.—Total constitutional diseases	7,352	3,952	3,400	1,890	1,640	2,062	1,760	127	102	244	181
III.—Total local diseases	18,558	9,778	8,780	5,756	5,038	4,022	3,742	200	248	2,164	1,784
IV.—Total developmental diseases	1,724	865	859	700	574	165	285	20	27	644	480
V.—Total poisons	270	201	69	87	29	114	40	2	3	2	1
VI.—Total injuries	1,485	1,153	332	449	171	704	161	12	6	40	34
VII.—Total surgical operations	143	42	101	20	51	22	50	1	4	6	..
VIII.—Total human parasites	34	12	22	11	22	1	..	2	1	9	17
IX.—Total congenital malformations	85	36	49	35	49	1	..	..	3	34	47
X.—Unclassified.	1,302	720	582	710	571	10	11	10	16	673	530
Total, all causes	40,175	21,558	18,617	13,870	12,055	7,688	6,562	453	484	5,648	4,763

and Age—Year ending December 31, 1888—(Continued).

1 Year and Under 2.		2 and Under 5.		Total Under 5.		5 and Under 15.		15 and Under 25.		25 and Under 45.		45 and Under 65.		65 and Over.	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	1	1	..	11	18	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	3	..	3	..	..	..	1	..	..	..	..	..	..
1	1	1	3	11	21	1	..	..	1	..	..	..	..	..	..
..	..	..	..	3	4	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	7	7	..	..	..	..	..	..	..	..	..	..
1	1	..	..	8	22	..	..	..	..	..	..	..	..	..	..
..	..	1	1	17	16	..	..	..	..	..	..	..	..	..	..
1	1	1	1	36	49	..	..	..	..	..	..	..	..	..	..
34	32	9	9	616	518	..	2	1	1	..	3	1	3	2	2
..	..	..	..	100	53	..	..	..	..	..	..	..	..	..	..
34	32	9	9	716	571	..	2	1	1	..	3	1	3	2	2
..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..
768	730	1,054	1,006	3,654	3,425	459	476	163	104	293	161	154	149	74	108
113	91	105	91	462	363	77	122	514	555	1,756	1,328	923	784	220	248
808	701	660	607	3,632	3,092	373	343	449	526	1,938	1,725	2,201	1,786	1,185	1,308
3	3	..	..	647	483	2	..	..	1	..	..	14	29	202	346
1	..	1	..	4	1	..	..	8	12	123	33	60	19	6	4
21	14	47	28	108	76	90	28	144	47	468	86	277	61	66	34
..	..	1	..	7	..	1	2	5	9	10	58	14	26	5	6
1	1	1	3	11	21	1	..	..	1	..	..	..	..	..	..
1	1	1	1	36	49	..	..	..	..	..	..	..	..	..	..
34	32	9	9	716	571	..	2	1	1	..	3	1	3	2	2
1,750	1,573	1,879	1,745	9,277	8,081	1,003	973	1,284	1,256	4,590	3,394	3,644	2,857	1,760	2,056

Deaths by Accident and Negligence, 1870–1892, exclusive

	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
Burns and Scalds.									
Burns—									
At a fire	1	1	30	4	10	7	2	17	5
By alcohol	..	..	..	..	..	2	1	1	..
" benzine	1	..	..	..	..	1	1	..	1
" clothes taking fire from matches, etc.	22	34	29	32	28	43	40	22	22
" clothes taking fire while smoking in bed	..	..	..	..	1	..	1	1	..
" explosion of chemicals	..	..	..	..	..	..	..	..	..
" fall against stove	..	2	4	3	1	1	2	..	..
" fall into barrel of lime	..	..	..	..	..	..	..	..	..
" fall in lime-kiln	1	..	..	2	..	..	..	..	..
" fireworks	1	..	.	2	..	..	2	..	..
" gasoline	3	..	..	..	..	..	..	..	..
" gunpowder	..	1	..	..	..	..	..	..	..
" hot iron	1	..	..	..	..	..	..	1	..
" kerosene	12	15	14	5	10	6	6	6	4
" liquid gas	1	2	..	..	..	..	..	..	..
" molten metal	1	..	..	1	..	..	..	..	..
" naphtha	..	..	..	1	..	..	..	3	..
" other means	18	1	4	6	7	2	3	4	9
Total	62	56	81	56	57	62	58	55	41
Scalds—									
By bursting of beer vat	..	..	..	..	..	..	..	..	..
" bursting of boiler	..	..	1	..	..	..	..	..	..
" fall into boiler of lye	..	..	..	..	..	..	1	..	..
" " boiling soap	..	1	..	..	..	..	..	..	..
" " hot ink	..	..	..	..	..	1	..	..	..
" " vat of beer	..	1	3	..	..	1	..	..	..
" " vat of boiling plaster	..	..	..	..	..	..	..	..	..
" hot water, coffee, soup, etc	51	103	52	46	51	46	45	46	49
" melted sugar	1	..	..	..	..	..	..	..	..
Total	52	110	56	46	51	48	46	46	49
Total Burns and Scalds	114	166	137	102	108	110	104	101	90

of Poison, Sunstroke and Surgical Operations.

1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
6	10	5	9	4	6	10	7	16	16	8	3	52	36
1	1	..	..	..	..	..	..	1	..	..	..	1	..
1	..	1	1	..	..	2	1	..	1	2	1	1	..
37	27	21	20	16	27	19	27	25	28	31	31	29	28
..	..	..	..	..	..	1	..	..	1	..	..	..	..
..	..	..	..	..	1	..	..	..	..	..	..	..	..
..	4	..	1	2	..	1	2	2	1	2	1	3	3
..	..	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	1	..	..	..	2	..	..	..	..	1
..	1	..	..	..	..	..	1	1	2	..	..	1	..
..	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	..	..	..	..	..	..	..	..	..
5	14	13	11	4	16	16	21	10	16	12	11	14	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	1	..	..	..	..	..	..	..	..	..	..	2	..
3	18	32	28	28	11	10	12	8	10	17	30	38	58
54	76	73	71	57	61	59	71	65	75	72	77	141	136
..	..	..	..	..	1	..	..	..	..	..	..	..	..
1	..	..	..	2	2	1	1	..	3	2	1	1	..
..	..	1	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	1	1	..	..	..	..	..	..
..	..	..	..	1	..	..	..	..	..	..	..	..	..
40	48	50	45	35	46	33	34	45	39	23	42	35	42
1	..	..	..	..	..	..	..	..	..	..	..	..	1
42	49	51	45	38	49	35	36	45	42	25	43	37	43
96	125	124	116	95	110	94	107	110	117	97	120	178	179

Deaths by Accident and Negligence, 1870–1892, *exclusive*

	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
Drowning.									
In barrel of water	..	..	..	..	..	..	..	..	1
" boiler	..	1	2	1	1	..	1	..	..
" cellar, by bursting of sewer-pipe	..	..	..	..	..	..	..	..	1
" cistern	..	..	..	1	..	..	..	..	..
" culvert	..	..	1	..	..	..	..	..	..
" pail	..	2	..	..	1	..	..	..	1
" tub	..	..	4	..	..	1	..	..	..
" vat	3	..	..	..	..	..	..	..	..
Row-boat run down	..	..	..	3	..	1	..	..	..
While bathing	2	..	..	1	5	..	..	..	..
Other ways	181	206	216	149	169	171	187	184	174
Total	186	209	223	155	176	173	188	184	177
Falls.									
Down air-shafts	..	..	..	..	..	..	..	..	..
" elevator-shafts	..	..	..	..	..	..	..	..	..
" stairs	27	26	45	44	58	42	49	42	34
From bed	1	3	2	3	1	1	2	1	7
" bicycle	..	..	..	..	..	..	..	..	..
" Brooklyn Bridge	..	..	..	1	1	1	1	..	..
" building	10	9	20	10	12	4	6	2	5
" carts, trucks, etc	15	14	18	13	13	13	11	6	14
" chair	1	5	2	3	6	1	3	1	2
" church steeple	..	..	..	..	..	..	..	..	..
" elevated railroad structure	..	..	..	..	..	..	1	..	8
" elevator	..	2	..	1	1	1	1	5	..
" fire-escape	5	5	9	..	1	3	8	6	7
" horse	1	5	..	1	2	..	2	..	1
" ladder	8	3	6	3	5	5	5	3	7
" mast of vessel	2	2	5	4	2	7	2	2	1
" roof	13	11	22	14	15	23	15	16	14
" scaffolding	11	12	7	6	8	7	10	4	4
" stilts	..	..	1	..	..	..	..	..	..
" stoop, steps, etc	2	4	5	4	1	5	9	..	2
" swing	..	..	..	..	..	..	..	..	..

of Poison, Sunstroke and Surgical Operations—(Continued).

1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	1	1	1	..	..	..	1	3	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	1	..	..	..	..	1	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	2	..	3	..	..	..	..	..	1	1
..	5	1	1	1	..	2	2	1	2	..	3	1	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	2	1	1	..	1	..	..	..	..	2	..	..	..
..	1	..	4	10	3	3	..	..	..	1	..	..	..
145	215	165	190	218	168	168	180	206	171	210	216	192	183
145	224	168	196	232	173	177	183	207	173	214	222	194	187
..	..	4	1	..	2	3	6	1	7	20	10	10	10
4	..	..	..	..	13	8	8	12	9	13	9	10	8
46	52	44	70	68	61	47	53	69	36	57	50	77	47
3	2	4	4	..	7	6	5	2	3	3	1	4	4
..	..	..	..	..	..	..	..	..	..	..	..	1	..
1	..	..	..	1	..	1	..	..	..	1	..	..	..
3	9	20	10	14	11	7	14	9	24	37	31	17	10
11	21	13	15	21	15	15	18	17	25	25	21	27	25
2	2	6	2	5	7	4	3	3	5	9	1	6	2
..	..	..	..	..	1	..	..	1	..	..	..	1	..
12	8	5	8	6	2	7	11	13	..	5	..	2	1
..	5	5	5	5	..	..	..	..	..	1	1	..	..
5	5	5	7	8	8	15	14	18	21	19	18	19	13
..	..	..	2	1	1	1	2	2	2	3	3	3	5
7	4	7	11	8	9	7	6	3	4	9	8	12	1
6	2	..	2	2	2	1	1	2	3	1	1	1	1
11	23	24	14	28	17	15	30	31	37	20	17	24	23
11	12	9	14	14	11	15	13	9	23	12	4	18	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	8	4	8	6	6	5	11	11	6	5	9	15	4
..	..	..	..	..	..	..	..	2	..	..	..	..	1

Deaths by Accident and Negligence, 1870–1892, exclusive

	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
Falls.									
From telegraph pole	..	1	..	..	..	..	..	..	..
" tree	2	3	3	3	1	..	..	..	2
" window	33	44	49	38	44	40	39	54	55
In street	11	15	26	22	26	21	20	13	19
Into area	3	5	4	3	6	3	..	2	2
" cellar	5	4	8	3	..	3	6	4	4
" coal-hole	..	..	1	..	..	..	..	1	..
" hold of vessel	3	6	9	..	..	3	..	1	3
" sewer	..	..	1	..	..	1	..	..	..
Slipped on orange peel	..	..	..	..	..	..	..	..	..
Through or over balusters	..	..	..	..	..	1	1	3	3
" hatchways	18	21	14	27	28	14	21	20	16
" hole in dock	1	..	..	..	..	..	..	..	..
While performing "leap for life"	..	..	..	..	1	..	..	..	..
" stopping a runaway	..	..	..	..	..	..	..	..	..
Others	37	44	48	45	43	51	32	43	25
Total	209	244	305	248	275	250	244	229	235
Fractures and Contusions.									
By boat-hook	..	1	..	..	..	..	..	..	..
" bursting of grindstone	1	..	..	..	..	..	..	..	..
" " wheel	..	1	..	..	..	..	..	..	..
" capstan bar	..	1	..	..	..	..	..	..	..
" caving in of embankment	7	7	2	..	3	2	2	..	1
" " oven	1	..	..	..	..	..	..	..	..
" " tunnel	..	..	..	1	..	..	..	..	..
" crank of machine	..	1	..	2	..	..	..	..	..
By explosion of alcohol lamp	1	..	2	..	..	..	..	..	..
" " blast	5	3	9	9	2	5	1	6	2
" " boiler	1	10	..	7	1	1	2	..	..
" " carbonic acid gas generator	..	..	..	..	..	..	..	..	..
" " cartridges	..	..	..	1	..	..	1	..	..
" " fireworks	..	..	..	..	..	..	1	..	..
" " gas	..	..	..	..	..	..	2	..	..
" " gas tank	..	..	..	..	..	..	..	..	..
" " giant powder, dynamite, etc.	..	..	..	..	..	..	..	1	..

of Poison, Sunstroke and Surgical Operations—(Continued).

1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
..	1	..	..	..	..	..	1	2	1	2	..	1	1
3	4	1	..	2	2	2	3	..	1	..	1	3	..
49	53	76	64	49	64	65	59	100	63	42	57	79	67
33	38	40	29	29	48	40	40	39	18	17	13	33	22
..	1	..	3	2	3	6	..	3	2	7	2	3	3
3	13	11	13	12	3	9	9	8	9	10	6	5	7
..	..	1	1	3	..	1	..	..	..	..	..	..	..
2	8	6	10	3	3	1	4	10	4	8	5	7	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	1	..	..	..	..	..	..	..	..
2	3	4	4	1	4	4	2	2	2	..	2	2	..
15	17	19	7	22	12	10	18	18	10	8	10	12	16
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	1	..	..	..	..	..	..	..	..
38	32	46	44	55	50	32	50	56	67	80	153	6	179
268	323	354	348	365	364	327	381	443	382	414	433	398	464
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	2	7	1	2	7	3	..	3	5	1	2	2	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	..
2	..	..	..	1	..	..	1	..	2	1	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	7	4	5	1	5	..	3	3	..	5	1	1	2
..	..	..	1	3	..	1	1	2	..	1	1	..	1
..	..	..	..	..	..	..	..	..	..	..	2	..	1
2	1	..	2	..	..	..	..	..	1	..	..	1	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	3	..	..	..	..	..	..	..	..	2	1	..	..
..	..	..	..	..	1	..	..	..	..	..	..	..	..
..	..	1	..	1	1	..	..	..	2	2	3	3	1

Deaths by Accident and Negligence, 1870–1892, exclusive

	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
Fractures and Contusions.									
By explosion of gun	..	..	1	..	..	..	..	1	..
" " gunpowder	..	1	..	..	..	..	..	..	..
" " keg of ale	..	..	1	1	..	..	..	..	..
" " mineral water syphon	..	..	..	..	..	..	..	..	..
" " nitro-glycerine	1	1	..	..	..	..	..	..	..
" " nitrous ether	..	..	1	..	..	..	..	..	..
" " patent fire-extinguisher	..	..	..	..	..	..	..	..	..
" " soda-water fountain	1	..	..	..	..	..	..	..	..
" " steam chest	..	1	..	..	..	..	..	..	..
" " rendering tank	..	..	..	..	..	..	..	..	..
" " torpedoes	..	3	..	..	..	..	..	..	..
" " tugboat	..	..	5	..	..	..	..	..	..
" " water-back of range	..	..	1	..	..	..	..	..	..
" fall of building	11	..	..	11	..	1	..	..	1
" " chimney	..	..	1	..	..	..	..	..	..
" " derrick	4	1	2	1	2	4	2	2	..
" " elevator	..	2	1	..	..	3	2	2	..
" " girders, etc., Elevated Railroad	..	..	..	..	..	..	..	..	2
" " mast	..	..	1	2	..	..	..	..	..
" " plastering from ceiling	..	..	..	..	..	..	..	1	..
" " telegraph pole	..	1	..	..	..	..	2	..	..
" " tree	1	1	..	..	..	..	..	..	..
" " wall	3	3	..	2	1	8	2	..	..
" " other heavy bodies	..	37	31	30	19	15	17	19	28
" injuries while boxing	..	..	..	..	..	..	..	..	..
" " received in gymnasium	..	..	..	..	..	..	..	..	..
" " received in play	..	2	..	1	..	..	1	..	2
" " received while diving	..	..	..	..	..	..	..	1	1
" jumping rope	..	..	..	1	..	..	..	..	..
" kick of horse	3	5	7	11	6	3	7	8	4
" piece of wood from circular saw	..	1	1	..	..	..	..	..	1
" premature discharge of toy cannon	..	1	..	..	..	..	..	..	..
" sign board	..	..	..	..	..	..	1	..	1
" snowball	..	..	..	1	..	..	..	..	..
" striking spiles when bathing	..	..	..	2	..	..	1	..	..
Caught by elevator	3	1	3	1	..	5	4	2	4

of Poison, Sunstroke and Surgical Operations—(Continued).

1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
..	..	..	2	..	..	1	..	..	2	..	..	..	..
..	1	..	..	1	..	..	..	1	..	..	1	1	..
..	1	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	1	..	..	..	..	..	..	..	..
..	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	..	12	1	..	..	1	..	6	2	..	..	..	2
..	..	2	..	..	..	..	..	..	..	..	..	..	..
..	3	2	2	1	1	3	3	3	4	7	4	3	2
4	..	..	2	2	1	1	..	1	..	..	1	..	..
1	1	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	1	..	2	..	..	..	1	..	..
..	..	1	..	1	..	..	..	1	1	..	..	..	..
..	1	..	1	..	..	..	1	..	..	1	..	..	1
2	6	3	5	2	..	3	4	1	2	3	2	1	1
32	29	31	33	28	23	31	17	22	26	27	24	24	23
..	..	..	..	1	..	..	..	..	..	..	..	..	..
..	2	2	3	2	..	..	..	..	..	..	..	1	..
..	2	1	1	..	4	1	1	4	4	5	2	..	3
2	1	1	..	..	..	3	..	2	..	3	..	2	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	3	7	10	7	5	10	12	11	9	6	9	5	8
..	..	1	1	1	2	1	4	..	..	..	2	..	2
..	..	..	..	..	..	..	1	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	5	7	2	7	9	9	10	7	8	10	7	7	8

Deaths by Accident and Negligence, 1870–1892, exclusive

	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
Fractures and Contusions.									
Caught by hawser	..	1	..	..	..	..	..	..	..
" by hoist rope	..	1	..	..	..	..	..	..	..
" in machinery	14	14	4	11	3	8	7	5	2
" in pulley	1	..	..	..	..	..	..	..	..
Crushed between boat and dock	3	2	2	6		..	..	2	2
" between vessels	1	1	..	1		2	..	..	..
" by elevator	3	2	..	2	..	..	..	1	..
" by garden roller	..	1	..	..	..	..	..	..	..
" by panic on Brooklyn Bridge	..	..	..	..	..	..	..	..	..
" by panic in church	..	..	..	..	..	..	..	7	..
Struck in chest by baseball	..	..	..	..	..	..	..	..	..
" by pile driver	..	..	..	..	..	..	..	..	..
While tobogganning	..	..	..	..	..	..	..	..	..
In other ways	65	30	50	44	45	33	26	30	32
Total	130	137	125	148	84	90	81	88	83
Street Accidents.									
Elevated railroad	..	..	..	..	..	..	..	3	5
Other steam railroads	28	35	40	41	36	38	29	46	37
Street cars	50	59	55	55	35	37	35	21	36
Vehicles of other kinds	21	41	40	46	42	33	29	39	47
Total	99	135	135	142	113	108	93	109	125
Suffocation.									
At a fire	5	1	1	..	..	..	1	5	5
At mother's breast	1	5	2	..	..	..	..	..	1
By artificial teeth	..	1	..	..	..	..	..	..	..
" bean in larynx	..	..	..	..	..	..	2	..	..
" bed-clothing	..	2	..	1	..	..	..	..	..
" bone in bronchus	..	1	..	..	..	..	..	..	..
" button in pharynx	..	..	..	..	1	..	..	..	..
" caving-in of subway work	..	..	..	..	..	..	..	..	..
" food	4	3	2	5	3	3	3	2	3
" foreign body in trachea	..	..	..	..	..	..	..	..	..
" fumes of nitric acid	..	..	..	..	..	..	..	..	..
" grain in grain car	..	..	..	..	..	..	..	..	..

of Poison, Sunstroke and Surgical Operations—(Continued).

1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
..	1	..	..	..	..	1	..	..	1	..	..	..	..
..	..	1	..	..	..	1	..	..	..	..	..	..	..
5	1	7	13	6	7	6	6	7	17	7	11	10	9
..	..	..	..	..	..	1	..	..	..	..	..	..	..
..	..	3	1	4	3	1	2	4	1	2	..	..	..
..	1	..	1	1	..	2	1	..	..	..	2	..	..
1	..	1	2	3	..	..	..	..	..	..	..	3	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	12	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	..	..	..
..	..	1	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	1	..	..	..	..
18	70	50	47	50	45	52	53	61	48	62	110	113	185
88	141	147	136	137	116	133	123	139	137	145	186	181	198
8	10	9	7	3	7	8	3	3	6	3	3	10	8
36	34	47	54	35	27	40	57	39	62	68	43	63	56
26	36	35	36	31	35	27	34	34	21	24	17	37	49
47	59	39	58	43	44	42	45	56	61	60	52	54	73
117	139	130	155	112	113	117	139	132	150	155	115	164	186
5	2	3	3	3	9	20	8	4	30	18	3	36	4
..	..	..	..	..	3	7	5	14	13	10	19	15	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	1	..	..
..	..	..	..	..	..	..	1	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	2	..	..	..	..
4	5	2	4	1	9	2	4	8	5	5	7	7	8
..	..	..	..	..	..	1	..	2	1	4	1	1	..
1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	..

Deaths by Accident and Negligence, 1870–1892, exclusive

	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
Suffocation.									
By inhaling steam	1	..	..	..	1	..	..	..	..
" leak from gas-stove	..	..	..	..	..	..	..	..	..
" pressure on larynx (leaning on window guard)	..	..	..	..	..	..	..	..	..
" screw in bronchus	..	..	..	..	..	..	1	..	..
" self-suspension for lateral curvature of spine	..	..	..	..	..	..	..	..	..
" stopper of nursing bottle	..	..	..	..	..	1	..	..	..
" swallowing head of cane	..	..	..	..	..	..	..	..	..
" swallowing rubber blower	..	..	..	..	..	..	..	..	..
Caught between chair and plate holder	..	..	..	..	..	..	..	..	..
During operation for tonsilitis	1	..	..	..	..	..	..	..	..
During panic in school	..	..	..	..	..	..	..	..	..
In bin of bran	..	..	..	..	..	..	..	..	..
" bin of malt	..	..	..	..	..	..	..	..	..
" caisson, East River Bridge	..	..	1	..	..	..	..	..	..
" diving bell	..	..	1	..	..	..	..	..	..
" manger of hay	1	..	..	..	..	..	..	..	..
" mother's arms	..	2	2	..	..	..	..	..	..
" privy vault	4	1	..	..	1	1	4	..	..
Overlaid	25	14	17	15	21	22	9	8	17
Under load of manure	..	..	..	..	..	..	..	..	..
Other ways	14	3	6	3	6	9	10	1	3
Total	56	33	32	24	33	36	30	16	29
Wounds.									
Bite of boar	..	..	..	..	..	..	..	..	..
" cat	..	..	..	..	..	..	..	..	..
" horse	..	..	..	..	..	..	..	..	..
" mosquito	..	1	..	..	..	..	..	..	..
" rat	..	..	..	..	..	..	..	..	..
By circular saw	..	4	..	1	1	1	..	1	..
" cutting of corn	..	1	..	..	..	..	..	..	..
" fall on broken clothes-pin	..	..	..	..	..	..	..	..	1
" " broken glass	..	1	..	..	..	..	..	..	..
" " meat-hook	..	2	..	..	..	..	..	..	..
" " umbrella, on ice	..	..	..	..	..	1	..	..	..
" piercing of ears	..	1	1	..	..	..	..	..	..

of Poison, Sunstroke and Surgical Operations—(Continued).

1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..
..	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1	..	..	1	..	..	..
..	..	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	1	..	..	..	..	..	..	1	..	1	1
..	..	..	..	1	..	..	..	..	..	..	..	..	..
..	..	..	..	..	1	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	1	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	16	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	1	..	..	..	..	1	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	..	..	..	..	..	..	..	..
2	..	1	..	2	..	..	..	1	..	..	..	..	..
13	25	16	13	14	12	9	23	24	8	18	30	41	23
1	..	..	..	..	..	..	..	..	..	..	..	..	..
2	2	..	5	2	..	2	1	6	13	17	34	8	10
29	36	24	26	40	34	43	43	60	73	75	96	110	47
..	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	..	..	..	..	..	..	1	..
..	..	..	..	..	..	1	..	..	..	..	..	1	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	..	..	..	..	..	..	..	..	..
1	..	..	..	..	..	..	..	..	..	..	1	1	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..

Deaths by Accident and Negligence, 1870–1892, exclusive

	1870.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
Wounds.									
By stab while skylarking	..	1	..	..	..	..	..	..	1
" swallowing safety pin	..	..	..	..	..	..	..	1	..
" toy pistol	..	..	..	..	..	..	..	..	..
Gored by cattle	..	2	..	..	2	1	..	2	1
Gunshot	14	17	23	5	11	10	10	9	5
Of foot, by nail	..	1	3	3	3	1	4	2	3
" foot, punctured	..	3	..	2	..	1	..	4	..
" rectum, by syringe	..	..	..	..	..	..	..	..	..
" throat, by point of parasol	..	..	..	..	..	..	..	..	..
Others	4	10	5	6	4	6	8	8	5
Total	18	44	32	17	21	21	22	27	16
Miscellaneous.									
Abortion, criminal	..	..	..	..	2	..	..	..	2
Decapitation, method unknown	..	..	..	..	..	..	..	..	..
Electric current	..	..	..	..	..	..	..	..	..
Frost bite	..	..	..	6	..	2	..	1	1
Human remains	..	..	..	5	..	3	1	..	1
Neglect and exposure	..	14	17	13	26	23	10	5	1
Other causes, see body of report	..	..	..	..	..	..	..	..	..
Shock from fright	..	..	..	..	..	..	..	..	..
Struck by lightning	1	..	1	..	..	..	..	2	2
Total	1	14	18	24	28	28	11	8	7
Summary.									
Burns and scalds	114	166	137	102	108	110	104	101	90
Drowning	186	209	223	155	176	173	188	184	177
Falls	209	244	305	248	275	250	244	229	235
Fractures and contusions	130	137	125	148	84	90	81	88	83
Street accidents	99	135	135	142	113	108	93	109	125
Suffocation	56	33	32	24	33	36	30	16	29
Wounds	18	44	32	17	21	21	22	27	16
Miscellaneous	1	14	18	24	28	28	11	8	7
Total	813	982	1,007	860	838	816	773	762	762

In some items the preceding table will be found to differ from the annual reports of past years. All such differ-
" poison," instead of under " suffocation," as in many of the reports. Many accidents caused by street vehicles,

of Poison, Sunstroke and Surgical Operations—(Continued).

1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
..	..	..	..	..	..	1	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	2	2	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	5	15	11	8	6	11	19	21	7	12	11	16	13
..	4	6	3	1	1	2	2	3	2	2	..	3	..
..	2	4	..	..	3	..	..	..	1	4	..	1	3
..	..	..	..	..	..	..	..	1	..	..	..	1	..
..	..	1	..	..	..	..	..	..	..	..	..	..	..
12	8	7	13	12	3	13	9	10	16	20	21	31	32
20	22	34	31	23	13	28	30	36	26	38	33	55	49
1	1	..	1	..	5	5	3	5	3	1	..	4	1
..	..	..	..	..	..	..	..	..	..	..	..	2	..
..	..	..	1	..	..	..	..	3	5	8	2	2	..
1	..	..	1	..	5	3	1	1	..	1	..	..	..
..	..	..	..	..	1	..	..	..	..	..	..	2	..
2	15	2	1	7	7	2	8	4	9	..	1	..	12
..	..	..	..	..	..	..	..	..	..	..	..	..	4
..	..	..	..	..	1	..	..	1	1	..	1	1	..
2	1	..	..	..	..	..	..	..	..	..	..	..	..
6	17	2	4	7	19	10	12	14	18	10	4	11	17
96	125	124	116	95	110	94	107	110	117	97	120	178	179
145	224	168	196	232	173	177	183	207	173	214	222	194	187
268	323	354	348	365	364	327	381	443	382	414	433	398	464
88	141	147	136	137	116	133	123	139	137	145	186	181	192
117	139	130	155	112	113	117	139	132	150	155	115	164	186
29	36	24	26	40	34	43	43	60	73	75	96	110	47
20	22	34	31	23	13	28	30	36	26	38	33	55	49
6	17	2	4	7	19	10	12	14	18	10	4	11	17
769	1,027	983	1,012	1,011	942	929	1,018	1,141	1,076	1,148	1,209	1,291	1,321

ences are due to a difference of classification. For instance, deaths due to illuminating gas are classed under incorrectly classed under "fractures and contusions," have been transferred to "street accidents," etc.

List of Fires in New York City since 1871, *which have Involved a Loss of Human Life, so far as the same are given in Detail in the Annual Reports of the Health Department.*

		Deaths.
1872.	December 11, Fifth Avenue Hotel	11
	" 24, Caxton building, Centre street	7
1874.	No. 24 East Sixtieth street	2
	Third avenue, between One Hundred and Forty-first and One Hundred and Forty-second streets	4
1878.	No. 544 East Sixth street	3
	No. 85 Eldridge street	1
1879.	No. 75 Vesey street	1
	Broadway and Grand street	1
	No. 80 Cannon street	4
	No. 301 Mulberry street	1
	No. 66 Mott street	1
	No. 227 East Seventh street	1
	Bellevue Hospital	3
1880.	No. 384 Broadway	2
	No. 66 East Fourth street	8
	No. 29 Third avenue	1
	No. 646 East Thirteenth street	1
	Seventh avenue and Twenty-ninth street	1
	No. 1526 Third avenue	1
1881.	No. 35 Madison street	10
	No. 1 Stone street (school-room)	1
1882.	World building	6
	Tenth avenue and Twenty-second street	1
	No. 140 Attorney street	1
	No. 141 Chatham street	1
	Avenue A and Seventy-second street	1
	No. 25 Roosevelt street	2
	St. Vincent de Paul Asylum	1
	No. 9 Wooster street	1
	Park Theatre	2
	No. 243 Pearl street	1
	No. 1477 Third avenue	1
1883.	No. 48 East Sixty-fourth street (Cumberland Flat)	2
	No. 190 Greene street	1
	Avenue A and Twenty-fourth street	1
1883.	No. 314 West Fifty-fourth street (Terrace Flats)	3
1884.	No. 326 Stanton street	5
	No. 39½ Division street	1
	No. 52 Vestry street	1
	No. 91 Water street	4
	No. 234 Rivington street	1
	No. 37 Crosby street	2
	No. 79 Crosby street	1
1885.	No. 18 William street	6
	No. 672 First avenue	12
	No. 512 East Sixteenth street	1
	No. 57 Pearl street	1
	Tenth avenue and Twenty-sixth street	1
	One Hundred and Twenty-sixth street, between Seventh and Eighth avenues	1
	No. 150 Delancey street	1
	No. 404 East Sixty-fourth street	3
	No. 545 Grand street	1
	One Hundred and Sixty-sixth street, Kingsbridge	4
1886.	One Hundred and Thirty-seventh street and Fourth avenue	1
	No. 45 Chambers street	1
	No. 199 South Fifth avenue	1
	No. 174 Division street	1
	No. 305 Avenue C	3
	No. 24 Allen street	2
	No. 2020 Third avenue	1
	No. 492 Canal street	1
	No. 360 East Fiftieth street	1
	No. 421 West Thirty-second street	1
	No. 786 Seventh avenue	1
	No. 158 West Fifty-eighth street	1
1887.	No. 49 Vesey street	1
	No. 692 Sixth avenue	2
	Hegeman's drug store	1
	Nos. 12 and 14 Essex street	4
	No. 4 Extra place	1

List of Fires in New York City since 1871, *etc.*—(Continued).

		Deaths.			Deaths.
1887.	No. 647 Second avenue	1	1889.	No. 305 Seventh avenue	9
	No. 625 West Thirty-fourth street	1		National Line Dock	6
	Morris Dock	1		No. 81 Centre street	1
	No. 11 South street	2		No. 378 Broadway	1
	St. Joseph's Asylum	1		No. 140 Monroe street	1
	No. 343 Bowery	1		No. 83 Norfolk street	2
	Fifty-seventh street	1		Seventh avenue and One Hundred and Twenty-seventh street	2
	No. 345 West Forty-third street	1	1890.	No. 34 Norfolk street	1
1888.	Broadway and Forty-ninth street	1		No. 544 Hudson street	1
	No. 16 Pike street	1		No. 530 West Forty-first street	1
	Hospital for Ruptured and Crippled	1		No. 234 West Thirtieth street	1
	No. 336 East Forty-ninth street	1		No. 1577 Third avenue	1
	No. 59 Spring street	1		No. 152 West Thirty-third street	1
	No. 43 Second street	5	1891.	No. 197 Mercer street	1
	No. 365 East Third street	2		No. 902 Union avenue	4
	No. 379 First avenue	1		No. 37½ Allen street	5
	No. 179 Bowery	19		No. 201 East Seventy-fourth street	1
	No. 104 East Broadway	1		No. 9 Spruce street	1
	No. 1028 Second avenue	4		Corner Nassau and Fulton streets	2
	No. 127 Forsyth street	1		No. 52 Dominick street	4
	No. 79 Bowery	1		No. 39 Baxter street	1
	No. 155 East One Hundred and Tenth street	1		No. 12 East Ninetieth street	1
1889.	Nos. 715 and 717 East Fifth street	3		One Hundred and Thirty-fifth street and North river	1
	No. 444 West Thirty-ninth street	1		No. 316 Delancey street	1
	No. 83 Elizabeth street	1		No. 215 East Twenty-ninth street	2
	No. 2153 Third avenue	1		No. 112 Bleecker street	1

The exact dates of the fires in the foregoing list are not stated, excepting for 1872; but they occurred very nearly in the order in which they are given.

List of Casualties (Exclusive of Fires) in New York City Since and Including 1871, *which were Attended by a Considerable Loss of Life.*

	Deaths.
1871. July 12, Orange riot. (One of these deaths occurred in Brooklyn)	54
July 30, explosion of boiler on steamer "Westfield," foot of Whitehall street. Of these 19 were drowned, 54 scalded to death, 9 killed by fragments of boiler. The remaining 7 died in Brooklyn	89
1873. Explosion of boiler, Fourth avenue improvements	7
1875. Fall of wall of burned building on the roof of St. Andrew's Church, corner of Duane street and City Hall place. 2 crushed by wall, 3 trampled in panic	5
1876. Fire on bark "Europa." 1 burned, 5 suffocated in hold	6
1877. Falling in of portion of roof of Post-office	3
Panic in St. Francis Xavier's Church	7
1877. Fire on board steamer "Northam"	3
1878. Breaking of strand of Brooklyn Bridge cable	2
1880. Falling in of wall of Madison Square Garden	4
Burning of steamer "Seawanhaka." 5 burned, 30 drowned	35
1881. Fall of building corner Grand street and South Fifth avenue	10
1882. Collision on N. Y. C. & H. R. R. R. Cars fired	8
1883. May 30, panic on Brooklyn Bridge	12
Explosion on steamer "Riverdale"	4
1891. Collapse of building and fire at Nos. 68–74 Park place. 36 burned, 25 suffocated.	61

TABLE OF CONTENTS.

	PAGE
LIST OF OFFICERS AND EMPLOYEES	3-9
REPORT OF THE COMMISSIONERS	11-69
Organization of the Department	11
Public Health	11
Discussion of causes of mortality	12-28
Infant mortality	13-15
Phthisis, pneumonia and bronchitis	17-27
Population, area and density by Wards	27
Contagious and infectious diseases	28-47
Hospitals	49
Vaccination	33, 34
Cholera, with history of previous epidemics	34-47
Disinfection	48
Ambulance Corps, Veterinarian	47, 48
Summer Corps	53
Sanitary inspection	53-56
Tenement-house inspection	56-59
Lodging-houses	59
Slaughter-houses	60
Stables and stable manure	61
Milk, meat, fish, fruit and food inspection	62
Offensive trades	63
Croton water	63
Meteorology	63
Dead animals and offal	64
Vital statistics	65
Suits for enforcement of orders	66
Receipts and expenditures	67, 68
Tables.	
Increase of deaths from certain causes	13
Deaths by age, with percentage on total mortality, by weeks, 1891 and 1892	14, 15
Deaths for 1892 and ten-year average	16
Deaths and death-rates by sex and age, 1892	17
Deaths and death-rates from pneumonia, 1892	19, 20
Deaths and death-rates from phthisis, 1892	21, 22
Deaths and death-rates from bronchitis, 1892	23-25

REPORT OF THE COMMISSIONERS—(*Continued*): PAGE

Deaths and death-rates from pneumonia, phthisis and bronchitis 26, 27
Population, area and density, by Wards 27
Work of Medical Sanitary Inspectors 29
Typhus fever cases, deaths and mortality 31
Vaccinations, 1889–1892 32
Small-pox, 1869–1892 32
Cost of vaccination since 1888 33
Cholera in 1892 38
Cholera, 1832–1892 40
" 1832, 1834 41
" 1849 ..... 42, 43
" 1853 43
" 1854 ..... 44, 45
" 1866 ..... 46, 47
Work of Veterinarian 48
Work of Disinfecting Corps 49
Work of the hospitals 50–53
Work of Summer Corps 53
Work of Sanitary Inspectors 54
Front and rear tenement-houses, by Wards 58
Lodgers and lodging-houses 60, 61
Work of Food Inspectors 63
Analyses of Croton water 63
Meteorology for 1892 64
Animals and offal removed to offal dock 64
Births and marriages since 1887 66
Work of Attorney's Office 66, 67
Receipts and Expenses of Department 67, 68

REPORT OF THE SANITARY SUPERINTENDENT 69–233
Contagious diseases 69, 86
Offensive trades 71, 88
Fowl markets 74
Diseased cattle 76–81
Lion Park 81
Wells in city 82
Mott Haven Canal 83, 84
Stables 88
Public schools 89

Table.

Cattle condemned and killed 78, 79
Sanitary Inspection 90–96

REPORT OF THE SANITARY SUPERINTENDENT—(*Continued*):

Sanitary Inspection—

Tables. PAGE

Inspections and reinspections 90
Complaints 90
Inspections in detail 91
Reports of Inspectors classified 92, 93
Work of Sanitary Police 93
Report of Sanitary Police classified 94, 95
Dead animals and offal removed 96
Division of Plumbing and Ventilation 96–98

Tables.

Plumbing and drainage of new buildings 96
Light and ventilation of new tenements 97
Recapitulation of work of division 97, 98
Division of Contagious Diseases 98–167
Medical Sanitary Inspectors 98–100
Vaccination service 100–103
Summer Corps 104
Ambulance and Disinfecting Corps 105
Cholera, 1892 106–121
Clinical histories 107–110
Etiology 111–116
Action of Department 116–120
Typhus fever, 1892 122–142
Small-pox, 1892 142–167

Tables.

Work of Medical Sanitary Inspectors 99, 100
Work of Vaccinators 103
Work of Summer Corps 104
Work of Disinfecting Corps 105, 106
Work of Veterinarian 106
Cholera cases in detail 121
Typhus fever in detail 128–142
Small-pox in detail 146–167
Division of Pathology, Bacteriology, and Disinfection 168–203
Disinfecting Station 168–170
Investigations of cholera 171–180
Circulars on disinfection 180–189
Experimental work on disinfection 190–201
Electrolyzed sea water 190–193
Sulphurous acid gas 194–199

REPORT OF THE SANITARY SUPERINTENDENT—(*Continued*):

Division of Pathology, Bacteriology and Disinfection—

Experimental work on disinfection— PAGE

Steam and dry heat 200, 201

Tuberculous milk 202, 203

Tables.

Bacteriological examinations of cholera cases 179, 180

Effects of sulphurous acid gas 196–199

Effects of steam and dry heat 200, 201

Division of Foods, Chemical Analysis and Offensive Trades 203–233

Work of Assistant Chemists 204, 205

Work of the Inspectors of Foods 206–208

Work of Inspectors of Offensive Trades 208, 209

Examinations of water (bacteriological) 211, 212

Examinations of water (chemical) 213–219

Examinations of milk 219–225

Experimental analyses 225

Milk inspection 226, 227

Fruit and food inspection 229, 230

Meat inspection 230, 231

Fish inspection 231

Inspection of offensive trades 231, 232

Tables.

Summary 203

Work of Milk Inspectors 203–227

Work of Assistant Chemists 204, 205

Work of Fruit and Food Inspectors 206, 207

Work of Meat and Fish Inspectors 207, 208

Work of Inspectors of Offensive Trades 208–211

Analyses of Croton water in city 212, 213

Analyses of preserved milk 222, 223

Total receipts of milk, 1891 and 1892, by months 228

Total receipts of fruits, canned goods and vegetables, 1892 ..... 229, 230

Total number of animals slaughtered, 1892 231

Total receipts of meat and poultry, 1892 231

Total receipts of fish, 1892 231

Daily output of gas companies, etc 232

Total amount of coal consumed, 1891 and 1892 232

REPORTS OF HOSPITAL PHYSICIANS 233–251

Willard Parker and Reception Hospitals 233–240

Comments of Resident Physician 236

REPORTS OF HOSPITAL PHYSICIANS—(*Continued*):

Tables. PAGE

Willard Parker Hospital 233–236
Cases according to sex, nativity and final disposition, with percentage of mortality 233
Cases according to disease, sex, nativity and place whence received 234, 235
Cases according to disease, age, nativity and final disposition 235, 236
Reception Hospital 236–240
Cases according to sex, nativity and final disposition 236
Cases according to disease, sex, nativity, place whence received and final disposition 237–239
Recapitulation 239, 240
Riverside Hospital 240–251
Comments of Resident Physician 240

Tables.

Cases according to disease, sex and month admitted 241
Cases according to disease, sex, nativity, color, place whence received, and final disposition 242–245
Cases among immigrants, according to disease, sex and mortality by months ... 246, 247
Cases according to disease, result of treatment and complications 246, 247
Cases according to disease, sex, age and result of treatment, with percentage of mortality 248–250
Recapitulation 251
REPORT OF THE REGISTER OF RECORDS 251–634
Comments on the vital statistics for 1892 251–267
Principal causes of death 252–259
Influenza 259, 260
Typhus fever 261
Cholera 261, 262
Contagious and infectious diseases 262
Ages 262–264
Nativity 264
Deaths by violence 264, 265
Births and marriages 265
Searches and transcripts 266
Still-births 266, 267

Tables.

Deaths by classes, 1891 and 1892 252
Deaths by certain diseases, 1891 and 1892 253–255
Comparison of hot periods of 1872 and 1892 ..... 256, 257
Daily deaths from sunstroke, 1872 and 1892 258

REPORT OF THE REGISTER OF RECORDS—(*Continued*): PAGE

Total deaths by months, 1891 and 1892 259
Deaths reported during epidemic of influenza by days and weeks 260
Deaths from typhus fever, 1881 and 1892 261
Deaths by age and sex, 1890, 1891, 1892 ..... 262, 263
Deaths according to nativity, 1890, 1891, 1892 264
Deaths by homicide since 1869 265
Work of the year 268, 269
Births, marriages and deaths, according to sex, color, parent-nativity and civil condition, and still-births by sex, color, parent-nativity and period of utero-gestation 268, 269
Places where death occurred 268, 269
Deaths according to cause, age, sex and color (males and total of both sexes, 270–283; females, 284–297) 270–297
Deaths according to cause, age, sex and color, with meteorology, by months 298–301
Same by weeks (reported mortality) 302–309
Deaths, total and by certain causes, and in institutions, by Wards 310, 311
Deaths by certain causes, total deaths, and deaths in institutions, according to nativity, parentage and color 312, 313
Deaths by age and sex, and mortality percentage by months 314, 315
Deaths of centenarians (in detail) 316
Number and locality of interments since 1887 316
Deaths and death-rates by sex, by months 317
Births and birth-rates, by sex, by months 317
Deaths by suicide, according to method, sex, nativity and age 318, 319
Deaths in institutions (in detail) 320
Deaths by accidents and negligence (in detail) 320–324
Deaths from surgical operations (in detail) 324, 325
Marriages, according to former condition of persons married, by months 326, 327
Marriages, according to age 326, 327
Births, according to color, parent-nativity, sex, by whom reported, legitimacy and plural births, by months 328, 329
Increase or decrease of deaths by certain causes, in comparison with ten-year average. 328, 329
Cases of sickness reported weekly from diphtheria, scarlet fever and measles, by Wards 330–337
Marriages by months, by sex, color, condition and nativity 338, 339

Summaries for Previous Years.

Births by weeks, since 1871 340–343
Deaths by cause, age, sex, nativity and color, 1881 344–391
" " 1882 392–439
" " 1883 440–479
" " 1884 480–519

REPORT OF THE REGISTER OF RECORDS—(*Continued*): PAGE

Deaths by cause, age, sex, nativity and color, 1885 520–559
" " 1886 560–595
" " 1887 596–631
" " 1888 632–647
Deaths by accident and negligence, 1870–1892 648–661
Fatal fires since 1871, in detail 662, 663
Notable fatal casualties since 1871 664

LANE MEDICAL LIBRARY

To avoid fine, this book should be returned on or before the date last stamped below.